PHASE II - ENVIRONMENTAL SITE ASSESSMENT

Mattabassett Regionalization Project
Middletown Inter Municipal Force Main
Proposed Sewage Pumping Station
34 East Main Street
Middletown, Connecticut

Prepared for:

City of Middletown
82 Berlin Street
Middletown, Connecticut 06457

Prepared by:

CDR Maguire Inc.
2080 Silas Deane Highway
Rocky Hill, Connecticut 06067

February 27, 2014

CDR Maguire Project No. 14712.02.A300

TABLE OF CONTENTS

Page Number

1.0 INTRODUCTION……..…...……1
2.0 SITE DESCRIPTION……..……...…….....3
2.1 Background……..……3
2.2 Geology……...……..……..3
2.3 Hydrogeology…….……4
3.0 PRELIMINARY CONCEPTUAL SITE MODEL……..……..5
4.0 SUBSURFACE INVESTIGATION…….…….……..…….....7
4.1 Geoprobe® Soil Borings & Soil Sample Analyses……....7
4.2 Groundwater Grab Sample Collection & Analyses……8
4.3 Project Quality Assurance/Quality Control Practices……...……..9
5.0 DISCUSSION OF SAMPLE RESULTS…….……...……...…….....11
5.1 Regulatory Criteria…….…….…….…….……11
5.2 Results of Soil Sample Analyses..…….……..…….…….…….…...……..……...…13
5.3 Results of Groundwater Grab Sample Analyses…….…….…..…….…….…..19
5.4 Quality Assurance/Quality Control Samples……..23
5.5 Data Quality Assessment and Data Usability Evaluation (DQA/DUE)…..…….…..…….23
6.0 DISCUSSION OF AFFECTED RESOURCES……..……..…….…….25
6.1 Areas of Environmental Concern (AOEC)……..……....…….……..25
6.2 Low Level Areas of Environmental Concern (LLAOEC's)…..……..28
6.3 Groundwater Area of Environmental Concern (GWAOEC)…….……..30
7.0 RECOMMENDATIONS……..…….……..….……..31
8.0 LIMITATIONS……..…….…….…..…….33

FIGURES
FIGURE 1 – Project Location Plan…….2
FIGURE 2 – Previous Investigations – Boring Location Plan
FIGURE 3 – Phase II Environmental Site Assessment – Boring Location Plan
FIGURE 4 - Areas of Environmental Concern
FIGURE 5 – Low Level Areas of Environmental Concern

TABLES
Table 1 – Results of Geoprobe® Boring Soil Sample Analyses
Table 2 – Results of Groundwater Sample Analyses
Table 3 – Results of QA/QC Samples Analyses

APPENDICES
APPENDIX A – Boring Logs
APPENDIX B – Laboratory Reports (CD)
APPENDIX C – DQA & DUE Worksheets

1.0 INTRODUCTION

On behalf of the City of Middletown, CDR Maguire Inc. (CDRM) has conducted a Phase II Environmental Site Assessment (ESA) in association with the construction of the proposed Pump Station at 34 East Main Street in Middletown, Connecticut, which is the site of an existing sewage pumping station. (See Figure 1 – Site Location Plan).

The purpose of this Phase II ESA is to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts to be encountered during construction associated with the proposed pump station. It is anticipated that Environmental Plans, Specifications, and Estimate will subsequently be prepared to assess construction related activities (i.e. proper storage, classification, transport and disposal of contaminated materials), in relationship to the environmental conditions prevalent within the project limits, as well as to specify remedial work to be included in the Contract Bid Documents.

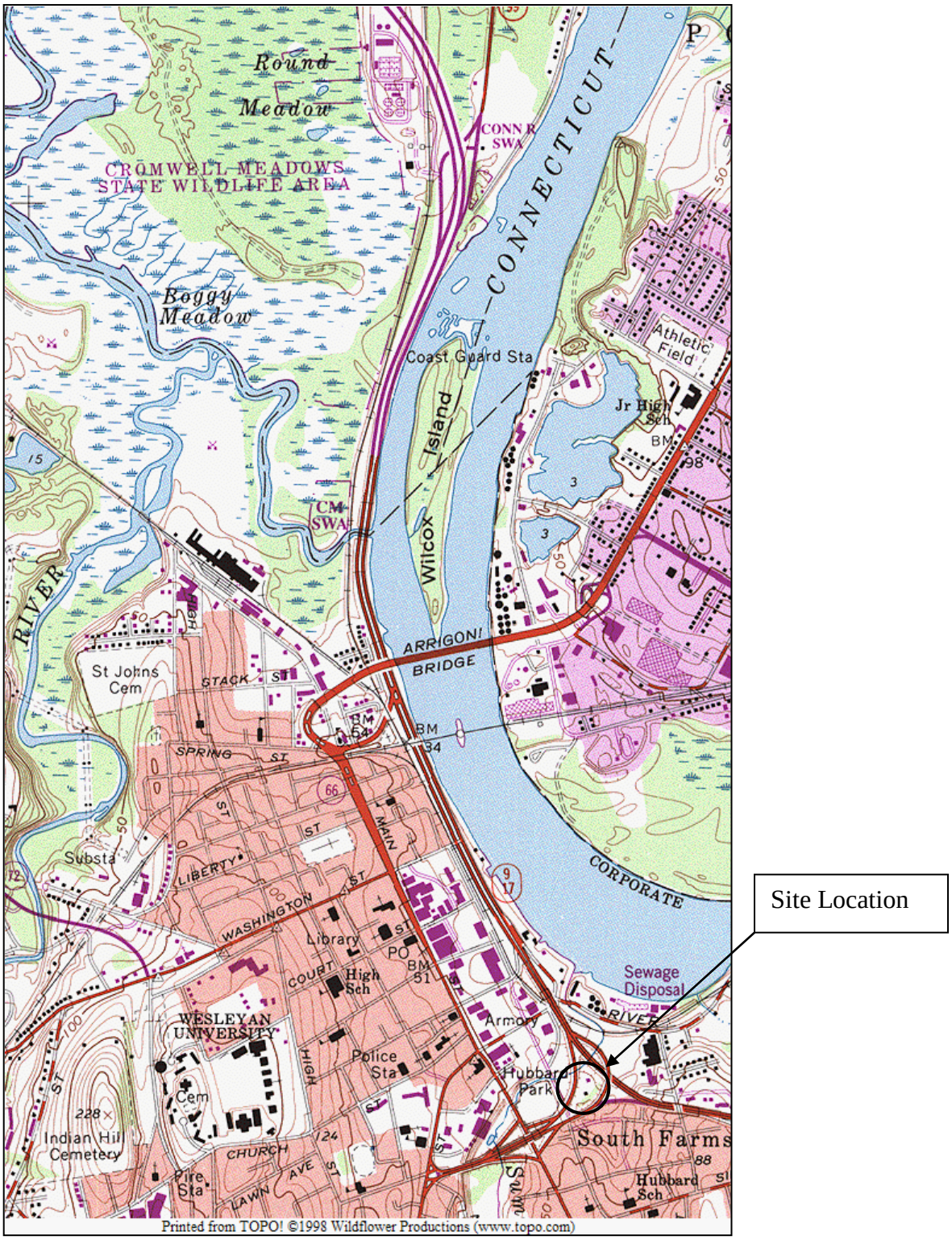


FIGURE 1 – SITE LOCATION PLAN
34 East Main Street
Middletown, Connecticut

2.0 SITE DESCRIPTION

2.1 Background

As part of the Mattabassett Regionalization Project, a new pump station is proposed to be constructed at the existing pump station site located at 34 East Main Street in Middletown. The pump station site is bounded to the west by East Main Street, to the north by the off ramp from Route 9 to Route 17, to the east by Route 9 and to the south by the on ramp to Route 9 and Maple Street. The pump station site (Site) is currently occupied by three (3) buildings and a chain link fence surrounds the entire parcel.

The area surrounding the project site consists of the Route 9 and railroad corridors, undeveloped land abutting Route 9, commercial, residential and industrial properties.

This Phase II ESA investigation was conducted within the project limits in the area of anticipated construction activities associated with the proposed pump station construction. The site area is depicted on the figures included at the end of this Report.

2.2 Geology

Topography within the project limits is characterized by urban areas, large floodplains and steep man-made banks. In the built portions of the project area, extensive manipulation of the original topographic features has occurred, including excavation and filling. The ROW of both Route 9 and the Providence and Worcester Railroad (P&WRR) line have been extensively filled within the Connecticut River Floodplain in the past. As a result, steep banks exist along both Route 9 and the railroad corridor. Natural elevations within the project area range from approximately El. 20 feet to El. 30 feet from south to north.

The CTDEEP's "Surficial Materials Map" for Middletown indicates that the soils underlying within the project limits are postglacial deposits composed of Alluvium overlying undifferentiated Coarse deposits consisting of sand and gravel and Artificial Fill. The Bedrock Geological Map of Connecticut, compiled by John Rodgers in 1985,

indicates that the bedrock unit underlying the Site is the Portland Arkose, which is described as a reddish-brown arkose (brownstone).

2.3 Hydrogeology

The CTDEEP's "Water Quality Classifications Map," dated February 25, 2011 for Middletown, Connecticut depicts the groundwater quality within the project limits as Class "GB." The "GB" groundwater classification indicates that the groundwater is within an urbanized area of intense industrial activity where a public water supply source is available. The groundwater may not be suitable for human consumption due to waste discharges, spills or leaks of chemicals, or land use impacts. Groundwater was encountered at depths of five (5) feet (PSGP-40 & PSGP-41) to fourteen (14) feet (PSGP-6, PSGP-10 & PSGP-43) below the existing ground surface.

The project site is located within the Sumner Brook Drainage Basin within the Connecticut Main Stem Regional Drainage Basin within the Connecticut Major Drainage Basin. One (1) surface water body is located within the project limits. Sumner Brook is located near the northern corner of the pump station site and is classified a Class B surface water body according to the CTDEEP's "Water Quality Classifications Map", dated February 25, 2011 for Middletown, Connecticut. The Class B designation indicates that the surface water quality does not meet water quality criteria for one or more of the following uses: recreational use, fish and wildlife habitat, agricultural and industrial supply and other legitimate uses including navigation.

The Connecticut River is located approximately 500-feet east-northeast of the project site and is classified a Class SB surface water body by CTDEEP. The Class SB designation indicates that the surface water quality is known to be tidally influenced and does not meet water quality criteria for one or more of the following uses: recreational use, fish and wildlife habitat, agricultural and industrial supply and other legitimate uses including navigation.

3.0 PRELIMINARY CONCEPTUAL SITE MODEL

The following environmental investigations have been conducted at the pump station site:

- *Underground Storage Tank Assessment Report, Various Sewer Facilities,* Middletown, Connecticut, Prepared for: City of Middletown, Prepared by: Metcalf & Eddy, Inc., June 2004 (M&E UST Report)

- *ASTM Phase I Environmental Site Assessment (ESA), Riverfront Revitalization Project, Area 3, 2 Parcels on deKoven Drive and East Main Street,* Middletown, Connecticut, Prepared for: City of Middletown, Department of Planning, Conservation & Development, Prepared by: Vanasse Hangen Brustlin, Inc., February 2005 (VHB Phase I)

- *Phase II Subsurface Investigation (SI), Riverfront Revitalization Project, 34 East Main Street,* Middletown, Connecticut, Prepared for: City of Middletown, Department of Planning, Conservation & Development, Prepared by: Vanasse Hangen Brustlin, Inc., February 2005 (VHB Phase II)

- *Phase I Environmental Site Assessment (ESA),* Mattabassett Regionalization Project, Middletown Sewage Pumping Station and Force Main, Existing Sewage Pumping Station Site, 34 East Main Street, Middletown, Connecticut, Prepared for: City of Middletown, Prepared by. Maguire Group Inc., December 9, 2011.

Based on the results of the previous environmental investigations, a Preliminary Conceptual Site Model (CSM) has been developed for the project site which identified eight (8) Potential Areas of Concern (PAOCs) where releases of Contaminants of Concern (COCs) may have occurred to the environment from historic corridor usage and site operations.

PRELIMINARY CONCEPTUAL SITE MODEL (CSM)

PAOC #	Description	COCs
1	Former 1,000-gallon Gasoline and 1,000-gallon Heating Oil UST	ETPH, VOCs, PAHs and metals
2	Geotechnical Borings B-1 and B-3	ETPH, VOCs, PAHs and metals
3	Former 1,500-gallon Heating Oil UST	ETPH, VOCs, PAHs and metals
4	Former Sewage Treatment Area	ETPH, VOCs, PAHs and metals
5	Equipment Storage Area and Debris Pile	ETPH, VOCs, PAHs and metals
6	AST and Equipment Storage Area	ETPH, VOCs, PAHs and metals
7	Historic Fill Material	ETPH, VOCs, PAHs and metals
8	Site Groundwater	ETPH, VOCs, PAHs and metals

A comprehensive sampling program was conducted in the areas of anticipated construction activities within the PAOCs for the proposed pump station construction. The following subsection details the results of the investigation.

4.0 SUBSURFACE INVESTIGATION

Based upon the results of the previous environmental investigations and the current/former industrial and commercial nature of the project site, a comprehensive sampling program was conducted in the areas of anticipated construction activities on February 20 to February 22, February 25, June 24, June 25, July 11, and July 12, 2013. The following subsections detail the results of the investigation.

4.1 Geoprobe® Soil Borings & Soil Sample Analyses

Twenty-nine (29) borings (PSGP-01 to PSGP-17, PSGP-36 to PSGP-41, PSGP-55 to PSGP-58, and FMGP #01 and FMGP #02) were advanced to a depth of 10-feet or refusal, eight (8) borings (PSGP-42 to PSGP-49) were advanced to a depth of 20-feet or refusal and five (5) borings (PSGP-50 to PSGP-54) were advanced to a depth of 40-feet or refusal for a total of forty-two (42) borings in the areas of anticipated construction activities at the proposed pump station site. The borings were advanced utilizing a Geoprobe® direct push unit.

The boring locations (PSGP-01 to PSGP-17, PSGP-36 to PSGP-58, FMGP #01, and FMGP #02) are depicted on Figure 3 - Phase II Environmental Site Assessment – Geoprobe Sample Location Plan at the end of this Report. Soil samples were collected continuously to the depths referenced above utilizing a 5-foot long 2-inch diameter Macro Core Sampler with dedicated acetate liners.

The soil samples were visually inspected in the field for staining, and were described as to physical characteristics and soil type. Soil boring logs were generated in the field by the on-site qualified technician. In addition, the soil samples were screened in the field for total volatile organic compounds utilizing a Photovac photoionization detector (PID). The boring logs denote the types of soil encountered, the depth to groundwater and/or bedrock, the total depth reached in each boring, and the highest observed PID reading. Copies of the boring logs are included at the end of this report in Appendix A.

Based upon field screening results and visual observations, soil samples were collected from each boring at the apparent strata changes in the material. A total of seventy (70) soil samples were collected and analyzed from the pump station site. The soil samples were placed in laboratory-supplied glassware, stored in an ice-filled cooler, and submitted to the Phoenix Environmental Laboratories, Inc. in accordance with chain-of-custody procedures. Soil samples were analyzed for a combination of the following parameters:

- Volatile Organic Compounds – EPA Method 8260
- Polycyclic Aromatic Hydrocarbons – EPA Method 8270
- Total and SPLP RCRA 8 Metals
- Total and SPLP Lead
- Extractable Total Petroleum Hydrocarbons – CT ETPH Method
- Polychlorinated Biphenyls – EPA Method 8082
- Pesticides – EPA Method 8081

All Geoprobe® soil borings were back-filled upon completion utilizing clean sand and/or hydrated bentonite. In paved areas, the borehole was filled to 6 inches below existing grade with hydrated bentonite, then patched with asphalt patch or concrete, as appropriate, until flush with the existing pavement. All down-hole sampling equipment was decontaminated in the field between each use utilizing an Alconox and water bath and de-ionized rinse.

4.2 Groundwater Grab Sample Collection & Analyses

A groundwater sample was collected from existing monitoring well designated MW-13 at the pump station site and four (4) groundwater grab samples were collected from borings PSGP-6, PSGP-10, PSGP-40, and PSGP-43 advanced at the pump station site and were designated MW-6, MW-10, MW-40, and PSGP-43 GW, respectively.

The groundwater samples were collected utilizing a peristaltic pump in accordance with the CTDEEP's Low Flow Sampling Procedures. Groundwater grab samples were collected by inserting one-half inch diameter, schedule 40, 10-slot, PVC well screen and

riser casing into the borehole. The well screen was temporarily installed approximately 4 feet into the observed water table depth. Dedicated polyethylene tubing was placed into the temporary well and the groundwater grab sample was drawn through the tubing using a low-flow peristaltic pump. The groundwater samples were placed in laboratory-supplied glassware, stored in an ice-filled cooler and submitted to Phoenix Environmental Laboratories, Inc. and analyzed for a combination of the following parameters:

- Volatile Organic Compounds – EPA Method 8260
- Polycyclic Aromatic Hydrocarbons – EPA Method 8270
- Total and Dissolved RCRA 8 Metals
- Total and Dissolved Lead
- Extractable Total Petroleum Hydrocarbons – CT ETPH Method
- Polychlorinated Biphenyls – EPA Method 8082

Groundwater samples collected for Dissolved-phase RCRA metals were field filtered using a 0.45-µm membrane filter prior to acidification.

4.3 Project Quality Assurance/Quality Control Practices

The CTDEEP's Quality Assurance and Quality Control (QA/QC) Guidance were used to ensure that the analytical results generated during the investigation are of known and appropriate quality. Specifically, the Laboratory Quality Assurance Control Reasonable Confidence Protocols (RCPs) were utilized for all laboratory analytical methods. The Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation (DQA/DUE) Guidance were utilized to ensure that the analytical data used is of known and sufficient level of quality for the intended purpose.

To assess the collection of samples in the field in terms of the sampling techniques and decontamination procedures followed, quality control and quality assurance samples were collected and analyzed. A field blank sample was prepared by pouring laboratory supplied de-ionized water over decontaminated sampling equipment and collecting the resulting rinsate in appropriate sample containers. The field blank sample was stored with the daily samples in the sample cooler until delivery to the laboratory for analysis.

The field blank was analyzed for the same parameters specified for the daily samples.

Laboratory prepared trip blanks accompanied samples obtained during field sampling activities. The trip blanks consisted of two, 40 ml vials containing laboratory grade de-ionized water. The trip blanks were placed in the sample cooler with the daily samples until delivery to the laboratory for analysis of EPA Method 8260 volatile organic compounds.

All samples collected in the field were stored in a manner that preserves the integrity of the sample chemistry. Samples intended for organic analyses were stored in an ice-filled cooler until delivery to the laboratory. Chain-of-Custody (COC) forms accompanied all samples collected as a legal record of possession of the sample. The COC was initiated in the field and accompanied the containers during sample collection, transportation to the lab, analysis, and final disposal of the sample.

5.0 DISCUSSION OF SAMPLE RESULTS

5.1 Regulatory Criteria

The CTDEEP has amended the Remediation Standard Regulations (Regulations of Connecticut State Agencies, Section 22a-133k-1 to 3 and 22a-133q-1) effective June 27, 2013. The Remediation Standard Regulations (RSRs) apply to any action which is required pursuant to Chapter 445, 446k or section 22a-208(c)(2) of the General Statutes, including but not limited to any such action required to be taken or verified by a licensed environmental professional. The Regulations also outline the processes for establishing alternative site-specific numerical standards for certain sites and criterion for additional polluting substances not specified in the RSRs, upon approval by the CTDEEP.

The RSRs criteria applicable to the soil and groundwater sampled during this investigation are summarized below. The application of these RSRs to the results of the laboratory analyses from this investigation are discussed in subsections 5.2, and 5.3 of this section.

Soils Criteria: The RSRs are organized into two sets of criteria: the Direct Exposure Criteria (DEC) and the Pollutant Mobility Criteria (PMC). The DEC and PMC are briefly explained in the following sub-sections, in relation to how they would be applicable to the types of analyses conducted on the soil samples collected for this investigation. Please refer to the RSRs for a complete explanation of the Regulations.

Direct Exposure Criteria

The purpose of the Direct Exposure Criteria (DEC) is to protect human health from risks associated with the direct contact with or ingestion of various common soil contaminants. The DEC are applicable to soil within approximately fifteen (15) feet of the ground surface. Concentrations of contaminants are evaluated based upon mass-based analyses and different criteria are established for residential and industrial/commercial properties.

The use of the less stringent commercial/industrial standards requires the placement of an environmental land use restriction on the property.

The DEC for substances other than PCBs do not apply to "inaccessible" soil at a release area provided that such soil is less than 15-feet below the ground surface and an Environmental Land Use Restriction (ELUR) is in effect with respect to the subject parcel or to the portion of such parcel containing such release area.

The DEC do not apply to metals, petroleum hydrocarbons or semi-volatile substances in soil provided such pollution is the result of: an incidental release due to the normal operation of motor vehicles, not including refueling, repair or maintenance of a motor vehicle; or normal paving and maintenance of a consolidated bituminous concrete surface provided such bituminous concrete surface has been maintained for its intended purpose.

Pollutant Mobility Criteria

The purpose of the Pollutant Mobility Criteria (PMC) is to evaluate the potential for contaminants to leach from the soil in concentrations that may degrade groundwater quality.

The PMC do not apply to "environmentally isolated" soil at a release area provided that an Environmental Land Use Restriction (ELUR) is in effect with respect to the subject parcel or to the portion of such parcel containing such release area. The PMC do not apply to polluted fill on a parcel if the fill meets the requirements of section 22a-133k-2(c)(4)(B)(i) through (vi). The PMC do not apply to substances, other than volatile substances, in soil at a release area provided that the release area meets the requirements of section 22a-133k-2(c)(4)(C)(i) through (v).

The PMC do not apply to metals, petroleum hydrocarbons or semi-volatile substances in soil provided such pollution is the result of: an incidental release due to the normal operation of motor vehicles, not including refueling, repair or maintenance of a motor

vehicle; or normal paving and maintenance of a consolidated bituminous concrete surface provided such bituminous concrete surface has been maintained for its intended purpose.

Different numerical criteria are established for GA and GAA groundwater areas, versus GB groundwater areas. Since the project corridor is located within a GB groundwater area, the less stringent criteria apply.

Groundwater Criteria: Contaminants in the groundwater are compared either to background quality or the Groundwater Protection Criteria (GWPC), the Volatilization Criteria (VC), as well as the Surface Water Protection Criteria (SWPC). However, based on the guidance provided by CTDEEP, groundwater samples collected for "Construction Projects" are compared to the effluent limits for the ***"General Permit for the Discharge of Groundwater Remediation Wastewater Directly to Surface Water"*** (GP to Surface Water) and the ***"General Permit for the Discharge of Groundwater Remediation Wastewater Directly to Sanitary Sewer"*** (GP to Sanitary Sewer) to determine if Groundwater Areas of Environmental Concern (GW AOECs) exist within the project limits.

5.2 Results of Soil Sample Analyses

Soil samples were collected from borings PSGP-01 to PSGP-17, PSGP-36 to PSGP-58, FMGP #01, and FMGP #02 and sent to Phoenix Environmental Laboratories, Inc. for analyses. Summaries of the laboratory results from the soil samples are presented in Table 1 located at the end of this Report, and copies of the soil sample laboratory reports are included in Appendix B. The following summarizes the results of the analyses conducted on the soil samples.

The results of the laboratory analyses indicated the presence of detectable concentrations of ETPH in twenty (20) of the seventy (70) soil samples collected as part of this ESA. The following table summarizes the eight (8) soil samples that contained ETPH at concentrations exceeding the applicable CTDEEP RSR criteria.

Table A - ETPH Exceedances

Sample ID. (Sample Depth)	Concentration (mg/kg)	GB PMC (mg/kg)	RDEC/I&C-DEC (mg/kg)
PSGP-4 (8'-10')	**750**	**2,500**	**500/2,500**
PSGP-10 (18'-20')	**1,900**		
PSGP-38 (3'-5')	**2,800**		
PSGP-39 (1'-3')	**550**		
PSGP-43 10-14 FT (10'-14')	**1,700**		
PSGP-49 15-20 FT (15'-20')	**1,200**		
PSGP-54 6-10 FT (6'-10')	**3,100**		
FMGP #02 (1'-3')	**1,100**		

No other detected ETPH was present at concentrations exceeding the applicable CTDEEP RSR criteria.

VOCs were detected above analytical detection limits in seven (7) of the seventy (70) soil samples collected as part of this ESA. The VOCs detected in the soil samples are associated with gasoline, gasoline additives, asphalt, and general petroleum-based transportation activities. However, the detected concentrations of VOCs were below the applicable CTDEEP RSR criteria. The following table summarizes the detected concentrations of VOCs in the soil samples.

Table B - VOCs Detected in Soil Samples

Sample ID. (Sample Depth) VOC Compound	Concentration (mg/kg)	GB PMC (mg/kg)	RDEC/I&C-DEC (mg/kg)
PSGP-10 (18'-20')			
1,2,4-Trimethylbenzene	2.3	70	500/1,000
1,3,5-Trimethylbenzene	0.82	70	500/1,000
1,4-Dichlorobenzene	0.64	15	26/240
Chlorobenzene	0.42	20	500/1,000
Naphthalene	1.6	56	1,000/2,500
n-Butylbenzene	0.45	14	500/1,000
n-Propylbenzene	0.29	14	500/1,000
p-Isopropyltoluene	0.78	41.8	500/1,000
Xylenes	0.84	19.5	500/1,000
PSGP-38 (3'-5')			
1,2,4-Trimethylbenzene	4.8	70	500/1,000
1,3,5-Trimethylbenzene	1.8	70	500/1,000
1,4-Dichlorobenzene	0.3	15	26/240
2-Isopropyltoluene	0.24	41.8	500/1,000
Naphthalene	0.91	56	1,000/2,500
n-Butylbenzene	1.1	14	500/1,000
n-Propylbenzene	0.32	14	500/1,000
p-Isopropyltoluene	0.67	41.8	500/1,000
sec-Butylbenzene	0.7	14	500/1,000
Toluene	0.38	67	500/1,000
PSGP-40 (8'-10')			
1,4-Dichlorobenzene	0.64	15	26/240
PSGP-43 1-5 FT (10'-14')			
Naphthalene	0.057	56	1,000/2,500
PSGP-45 15-20 FT (15'-20')			
Naphthalene	0.022	56	1,000/2,500
PSGP-46 15-20 FT (15'-20')			
Naphthalene	0.018	56	1,000/2,500
PSGP-49 15-20 FT (15'-20')			
1,2,4-Trimethylbenzene	1.9	70	500/1,000
1,3,5-Trimethylbenzene	0.68	70	500/1,000
1,4-Dichlorobenzene	0.53	15	26/240
Naphthalene	1.4	56	1,000/2,500
n-Butylbenzene	0.45	14	500/1,000
p-Isopropyltoluene	0.71	41.8	500/1,000
Xylenes	0.4	19.5	500/1,000

No other VOCs were detected above analytical detection limits in the soil samples collected as part of this Phase II ESA.

PAHs were detected above analytical detection limits in twenty-nine (29) of the seventy (70) soil samples collected and analyzed. The following table summarizes the ten (10) soil samples that contained PAHs at concentrations exceeding the applicable CTDEEP RSR criteria.

Table C – PAH Exceedances in Soil Samples

Sample ID. (Sample Depth) **PAH Compound**	**Concentration (mg/kg)**	**GB PMC (mg/kg)**	**RDEC/I&C-DEC (mg/kg)**
PSGP-38 (3'-5')			
Benz(a)anthracene	**1.3**	**1**	**1**/7.8
Benzo(a)pyrene	**1.4**	**1**	**1/1**
Benzo(b)fluoranthene	**1.8**	**1**	**1**/7.8
Chrysene	**1.5**	**1**	84/780
PSGP-39 (1'-3')			
Benz(a)anthracene	**1.3**	**1**	**1**/7.8
Benzo(a)pyrene	**1.4**	**1**	**1/1**
Benzo(b)fluoranthene	**1.8**	**1**	**1**/7.8
Chrysene	**1.5**	**1**	84/780
PSGP-43 1-5 FT (1'-5')			
Benz(a)anthracene	**1.8**	**1**	**1**/7.8
Benzo(a)pyrene	**1.5**	**1**	**1/1**
Benzo(b)fluoranthene	**2.1**	**1**	**1**/7.8
Chrysene	**1.7**	**1**	84/780
PSGP-43 10-14 FT (10'-14')			
Benz(a)anthracene	**14**	**1**	**1/7.8**
Benzo(a)pyrene	**9.7**	**1**	**1/1**
Benzo(b)fluoranthene	**15**	**1**	**1/7.8**
Benzo(k)fluoranthene	**5.6**	**1**	8.4/78
Chrysene	**14**	**1**	84/780
Indeno(1,2,3-cd)pyrene	**5**	**1**	**1**/7.8
PSGP-45 15-20 FT (15'-20')			
Benz(a)anthracene	**2.2**	**1**	**1**/7.8
Benzo(a)pyrene	**1.5**	**1**	**1/1**
Benzo(b)fluoranthene	**2.2**	**1**	**1**/7.8
Chrysene	**2.1**	**1**	84/780
PSGP-46 15-20 FT (15'-20')			
Benz(a)anthracene	**4.2**	**1**	**1**/7.8
Benzo(a)pyrene	**2.8**	**1**	**1/1**
Benzo(b)fluoranthene	**4.7**	**1**	**1**/7.8
Benzo(k)fluoranthene	**1.4**	**1**	8.4/78
Chrysene	**3.7**	**1**	84/780
Indeno(1,2,3-cd)pyrene	**1.3**	**1**	**1**/7.8

Table C Continued – PAH Exceedances in Soil Samples

Sample ID. (Sample Depth) PAH Compound	Concentration (mg/kg)	GB PMC (mg/kg)	RDEC/I&C-DEC (mg/kg)
PSGP-49 15-20 FT (15'-20')			
Benz(a)anthracene	**1.1**	**1**	**1**/7.8
Benzo(b)fluoranthene	**1.4**	**1**	**1**/7.8
Chrysene	**1.2**	**1**	84/780
PSGP-52 13-15 FT (13'-15')			
Benz(a)anthracene	**2.6**	**1**	**1**/7.8
Benzo(a)pyrene	**2.7**	**1**	**1/1**
Benzo(b)fluoranthene	**3.3**	**1**	**1**/7.8
Benzo(k)fluoranthene	**1.2**	**1**	8.4/78
Chrysene	**2.4**	**1**	84/780
Indeno(1,2,3-cd)pyrene	**1.1**	**1**	**1**/7.8
PSGP-52 13-15 FT (13'-15')			
Benzo(b)fluoranthene	**1.3**	**1**	**1**/7.8
FMGP #02 (1'-3')			
Benz(a)anthracene	**7.5**	**1**	**1**/7.8
Benzo(a)pyrene	**5.7**	**1**	**1/1**
Benzo(b)fluoranthene	**8.5**	**1**	**1**/7.8
Benzo(k)fluoranthene	**2.4**	**1**	8.4/78
Chrysene	**7.1**	**1**	84/780
Indeno(1,2,3-cd)pyrene	**3.0**	**1**	**1**/7.8

No other detected PAHs were present at concentrations exceeding the applicable CTDEEP RSR criteria.

PCBs were not detected above analytical detection limits (ND) in any of the soil samples collected and analyzed from the pump station site.

Pesticides were detected above analytical detection limits in the soil sample collected from boring FMGP #02. Dieldrin was detected in soil sample FMGP #02 (1'-3') at a concentration of 0.022 mg/kg which exceeds the GB PMC of 0.007 mg/kg but is below the RDEC and I/C-DEC of 0.038 mg/kg and 0.36 mg/kg, respectively. 4,4-DDE (0.061 mg/kg) and 4,4'-DDT (0.15 mg/kg) were also detected in soil sample FMGP #02 but at concentrations below the applicable RSR criteria.

Various total metals were detected in the soil samples at concentrations above analytical detection limits but below the applicable CTDEEP RSR criteria with the exception of total lead and total arsenic. The following tables summarize the total lead and total arsenic exceedances in the soil samples.

Table D – Total Lead Exceedances in Soil Samples

Sample ID. (Sample Depth)	Concentration (mg/kg)	RDEC/I&C-DEC (mg/kg)
PSGP-38 (3'-5')	**467**	**400/1,000**
PSGP-39 (1'-3')	**4,380**	
PSGP-41 (8'-10')	**12,500**	
PSGP-54 6-10 FT (6'-10')	**520**	
PSGP-54 14-20 FT (14'-20')	**2,040**	

Table E – Total Arsenic Exceedances in Soil Samples

Sample ID. (Sample Depth)	Concentration (mg/kg)	RDEC/I&C-DEC (mg/kg)
PSGP-41 (8'-10')	**19.9**	**10/10**

No other detected total metals were present at concentrations exceeding the applicable CTDEEP RSR criteria.

Various leachable metals were detected in the soil samples at concentrations above analytical detection limits but below the applicable CTDEEP RSR criteria with the exception of leachable lead. The following table summarizes the leachable lead exceedances in the soil samples.

Table F – Leachable Lead Exceedances in Soil Samples

Sample ID. (Sample Depth)	Concentration (mg/L)	GB PMC (mg/L)
PSGP-4 (8'-10')	**0.606**	**0.15**
PSGP-38 (3'-5')	**0.154**	
PSGP-50 15-17 FT (15'-17')	**0.272**	
PSGP-54 6-10 FT (6'-10')	**0.201**	
PSGP-54 14-20 FT (14'-20')	**1.68**	

No other detected leachable metals were present at concentrations exceeding the applicable CTDEEP RSR criteria.

5.3 Results of Groundwater Grab Sample Analyses

Groundwater grab samples, MW-6, MW-10, MW-40, and PSGP-43 GW were collected from borings PSGP-6, PSGP-10, PSGP-40, and PSGP-43, respectively, located at the pump station site. In addition, a groundwater sample was collected from existing monitoring well MW-13 at the pump station site. All groundwater samples were sent to Phoenix Environmental Laboratories, Inc. for analyses. Summaries of the laboratory results from the groundwater samples are presented in Table 2 located at the end of this report, and copies of the groundwater sample laboratory reports are included in Appendix B. The following summarizes the results of the analyses conducted on the groundwater grab samples.

The results of the laboratory analyses of the groundwater grab samples indicated the presence of ETPH in samples MW-6, MW-10, MW-40, and PSGP-43 GW at concentrations of 0.4 mg/L, 0.82 mg/L, 0.89 mg/L, and 0.6 mg/L, respectively, which are below the CTDEEP GP to Surface Water effluent limit of 5.0 mg/L and the GP to Sanitary Sewer effluent limit of 100 mg/L. ETPH was not detected above analytical detection limits (ND) in the groundwater sample MW-13.

VOCs were not detected above analytical detection limits (ND) in groundwater grab sample MW-40. Various VOCs were detected in groundwater samples MW-6, MW-13, MW-10, and PSGP-43 GW at concentrations above analytical detection limits. Individual effluent limits have not been established for the compounds detected. However, the concentration of total VOCs (53.2 ug/L) detected in groundwater grab sample PSGP-43 GW exceeds the GP to Surface Water effluent limit of 50.0 ug/L but is below the GP to Sanitary Sewer effluent limit of 5,000 ug/L.

PCBs were not detected above analytical detection limits (ND) in any of the groundwater samples MW-6, MW-13, MW-10, MW-40, and PSGP-43 GW.

Various PAHs were detected in all the groundwater samples MW-6, MW-13, MW-10, MW-40, and PSGP-43 GW at concentrations above analytical detection limits. Benz(a)anthracene (0.69 ug/L), benzo(a)pyrene (0.69 ug/L), and dibenz(a,h)anthracene (0.14 ug/L) were detected in groundwater sample MW-6 at concentrations which exceed the GP to Surface Water effluent limits of 0.49 ug/L, 0.49 ug/L, and 0.01 ug/L, respectively. The CTDEEP has not established individual effluent limits for the remaining detected PAHs. The concentration of total PAHs (7.93 ug/L) in groundwater sample MW-6 however, is below the GP to Surface Water effluent limit of 5 ug/L and the GP to Sanitary Sewer effluent limit of 500 ug/L.

The concentrations of PAHs detected in groundwater sample MW-13 did not exceed any established effluent limit. The concentration of total PAHs (0.4 mg/L) detected in groundwater sample MW-13 is also below the GP to Surface Water effluent limit of 5 ug/L and the GP to Sanitary Sewer effluent limit of 500 ug/L.

Benz(a)anthracene (1.8 ug/L), benzo(a)pyrene (0.82 ug/L), benzo(k)fluoranthene (0.93 ug/L), dibenz(a,h)anthracene (0.14 ug/L), and indeno(1,2,3-cd)pyrene (0.56 ug/L) were detected in groundwater sample MW-10 at concentrations which exceed the GP to Surface Water effluent limits of 0.49 ug/L, 0.49 ug/L, 0.49 ug/L, 0.01 ug/L, and 0.49

ug/L, respectively. The CTDEEP has not established individual effluent limits for the remaining detected PAHs. The concentration of total PAHs (52.74 ug/L) in groundwater sample MW-10 also exceeds the GP to Surface Water effluent limit of 5 ug/L for total PAHs, but is below the GP to Sanitary Sewer effluent limit of 500 ug/L.

Benz(a)anthracene (0.92 ug/L), benzo(a)pyrene (1.3 ug/L), benzo(k)fluoranthene (0.53 ug/L), dibenz(a,h)anthracene (0.32 ug/L), and indeno(1,2,3-cd)pyrene (1.2 ug/L) were detected in groundwater sample MW-40 at concentrations which exceed the GP to Surface Water effluent limits of 0.49 ug/L, 0.49 ug/L, 0.49 ug/L, 0.01 ug/L, and 0.49 ug/L, respectively. The CTDEEP has not established individual effluent limits for the remaining detected PAHs. The concentration of total PAHs (16.67 ug/L) in groundwater sample MW-40 also exceeds the GP to Surface Water effluent limit of 5 ug/L for total PAHs, but is below the GP to Sanitary Sewer effluent limit of 500 ug/L.

Benz(a)anthracene (18.0 ug/L), benzo(a)pyrene (14.0 ug/L), benzo(k)fluoranthene (7.0 ug/L), dibenz(a,h)anthracene (2.4 ug/L), and indeno(1,2,3-cd)pyrene (6.9 ug/L) were detected in groundwater sample PSGP-43 GW at concentrations which exceed the GP to Surface Water effluent limits of 0.49 ug/L, 0.49 ug/L, 0.49 ug/L, 0.01 ug/L, and 0.49 ug/L, respectively. The CTDEEP has not established individual effluent limits for the remaining detected PAHs. The concentration of total PAHs (248.5 ug/L) in groundwater sample PSGP-43 GW also exceeds the GP to Surface Water effluent limit of 5 ug/L for total PAHs, but is below the GP to Sanitary Sewer effluent limit of 500 ug/L.

Various total and dissolved metals were detected in the groundwater grab samples at concentrations above analytical detection limits but below the applicable effluent limits with the exception of total arsenic, total lead and dissolved arsenic. Total arsenic was detected in groundwater sample MW-10 at concentration of 0.023 mg/L, which exceeds the GP to Surface Water effluent limit of 0.004 mg/L but is below the GP to Sanitary Sewer effluent limit of 0.1 mg/L. However, dissolved arsenic was not detected above analytical detection limits (ND) in MW-10.

Total lead was detected in groundwater samples MW-10 and MW-40 at concentrations of 0.203 mg/L and 0.22 mg/L, respectively, which exceed the GP to Surface Water effluent limit of 0.004 mg/L and the GP to Sanitary Sewer effluent limit of 0.1 mg/L. However, dissolved lead was not detected above analytical detection limits (ND) in the groundwater samples MW-10 and MW-40.

Total arsenic was not detected above analytical detection limits (ND) in groundwater sample MW-13. However, dissolved arsenic was detected in groundwater sample MW-13 at a concentration of 0.006 mg/L, which slightly exceeds the GP to Surface Water effluent limit of 0.004 mg/L but is below the GP to Sanitary Sewer effluent limit of 0.1 mg/L.

Total and dissolved lead were not detected above analytical detection limits in groundwater sample PSGP-43 GW.

5.4 Quality Assurance/Quality Control Samples

The field blank sample, FB-1, did not contain any detectable concentrations of contaminants with the exception of PAHs. The presence of these substances in the field blank samples is likely due to field or laboratory contamination. The trip blank samples TB, TB-1, TB-2 and TB-3 did not contain detectable concentrations of VOCs. A summary of the laboratory results from the QA/QC samples is presented in Tables 3-1 and 3-2, which is located at the end of this Report, and copies of the analytical results associated with the quality assurance/quality control samples are included in Appendix B.

5.5 Data Quality Assessment and Data Usability Evaluation (DQA/DUE)

Seventy (70) soil samples and five (5) groundwater samples were collected from within the project limits and submitted to a state-certified analytical laboratory for analyses using the CTDEEP Reasonable Confidence Protocols (RCPs) established for VOCs, PAHs, ETPH, metals, pesticides and PCBs. The samples were collected to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts to be encountered during construction of the proposed force main.

A data quality assessment and data usability evaluation was performed for the data generated in accordance with CTDEEP guidance and noted the following quality control non-conformances. Copies of the DQA and DUE worksheets are included in Appendix C

Non-conformances related to Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) recoveries, LCS/LCSD Relative Percent Differences (RPDs), Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries, detection limits, Initial Calibration Analytical Limits (ICALs), and Continuing Calibration Verification (CCVs), responses do not have significant bearing on the accuracy and usability of the data for its intended uses. In all cases the non-conformances had no impact on the data usability and the data is of sufficient quality and precision for its intended use based on multiple lines of evidence.

Based on the above findings from the DQA and DUE, the analytical data is of adequate quality and of sufficient accuracy, precision and sensitivity to confirm that contaminants of concern are present in the soil at concentrations exceeding the CTDEEP RSRs Criteria. Contaminants of concern are also present in groundwater within the project limits at concentrations exceeding the effluent limits in CTDEEP's General Permit for Discharge of Groundwater Remediation Wastewater Directly to Surface Water but below the General Permit for Discharge to Sanitary Sewer effluent limits. Environmental Plans, Specifications and Estimate will be required to assess construction related activities (i.e. proper storage, classification, transport and disposal of contaminated materials), in relationship to the environmental conditions prevalent within the project limits, as well as to specify remedial work to be included in the Contract Bid Documents.

6.0 DISCUSSION OF AFFECTED RESOURCES

Based upon the results of the laboratory analyses performed on soil and groundwater samples for this Task 210 investigation and previous environmental investigations conducted at the site, eight (8) areas of environmental concern (AOECs) for soil have been identified where contaminants are present at concentrations that exceed the applicable CTDEEP RSR criteria. In addition, ten (10) low-level areas of environmental concern (LLAOECs) for soil have been identified, where contaminants were detected at concentrations below the applicable CTDEEP RSR standards, but above laboratory detection limits.

The entire project site has been designated a groundwater area of environmental concern (GWAOEC) where contaminants are present at concentrations that exceed both the GP to Surface Water and GP to Sanitary Sewer effluent limits. Therefore, dewatering fluids encountered during construction activities in these areas may not be discharged **directly** to surface water or sanitary sewer. Contaminated groundwater encountered within the GW AOEC will require on-site treatment prior to discharge in accordance with CTDEEP's general permits or will require off-site disposal at a permitted treatment/disposal facility. (See Attached Figure 3 for AOECs).

6.1 Areas of Environmental Concern (AOECs)

AOEC #1 - Boring PSGP-41

Analytical results from the soil sample collected from boring PSGP-41 indicated the presence of total arsenic and total lead at concentrations exceeding the applicable CTDEEP RSR criteria. PAHs were also detected in the soil sample at concentrations below the applicable CTDEEP RSR criteria. The contaminants were in soils at depths of 8 to 10-feet below grade.

.

AOEC #2 - Borings PSGP-38 and PSGP-39

Analytical results from soil samples collected from borings PSGP-38 and PSGP-39 indicated the presence of ETPH, PAHs, total lead and leachable lead at concentrations exceeding the applicable CTDEEP RSR criteria. VOCs were also detected in the soil sample at concentrations below the applicable CTDEEP RSR criteria. The contaminants were in soils at depths of 0 to 5-feet below grade.

AOEC #3 - Boring PSGP-43

Analytical results from soil samples collected from boring PSGP-43 indicated the presence of ETPH and PAHs at concentrations exceeding the applicable CTDEEP RSR criteria. VOCs were also detected in the soil sample at concentrations below the applicable CTDEEP RSR criteria. The contaminants were in soils at depths of 0 to 14-feet below grade.

AOEC #4 - Borings PSGP-10, PSGP-45, PSGP-46, PSGP-49, and PSGP-50

Analytical results from soil samples collected from borings PSGP-10, PSGP-45, PSGP-46, PSGP-49, and PSGP-50 indicated the presence of ETPH, PAHs, and leachable lead at concentrations exceeding the applicable CTDEEP RSR criteria. VOCs were also detected in the soil samples at concentrations below the applicable CTDEEP RSR criteria. The contaminants were in soils at depths of 15 to 20-feet below grade.

AOEC #5 - Boring PSGP-54

Analytical results from soil samples collected from boring PSGP-54 indicated the presence of ETPH, PAHs, total lead and leachable lead at concentrations exceeding the applicable CTDEEP RSR criteria. The contaminants were in soils at depths of 6 to 21-feet below grade.

AOEC #6 - Boring PSGP-52

Analytical results from soil samples collected from boring PSGP-52 indicated the presence of PAHs at concentrations exceeding the applicable CTDEEP RSR criteria. The contaminants were in soils at depths of 13 to 23-feet below grade.

AOEC #7 - Boring PSGP-4

Analytical results from the soil sample collected from boring PSGP-4 indicated the presence of ETPH and leachable lead at concentrations exceeding the applicable CTDEEP RSR criteria. The contaminants were in soils at depths of 8 to 10-feet below grade

AOEC #8 - Boring FMGP #02

Analytical results from the soil sample collected from boring FMGP #02 advanced as part of the Phase II ESA for the force main installation indicated the presence of ETPH, PAHs, and dieldrin at concentrations exceeding the applicable CTDEEP RSR criteria. Low concentrations of 4,4'-DDE and 4,4'-DDT were also detected in the soil sample at concentrations below the applicable CTDEEP RSR criteria. The contaminants were in soils at depths of 0 to 3-feet below grade.

6.2 Low Level Areas of Environmental Concern (LLAOECs)

LLOEC "A" - Boring PSGP-40

Analytical results from the soil sample collected from boring PSGP-40 indicated the presence of low concentrations of PAHs in soils at depths ranging from 8 to 10-feet below grade.

LLOEC "B" - Boring PSGP-43

Analytical results from the soil sample collected from boring PSGP-43 indicated the presence of low concentrations of PAHs in soils at depths ranging from 14 to 20-feet below grade.

LLOEC "C" - Boring PSGP-2

Analytical results from the soil sample collected from boring PSGP-2 indicated the presence of low concentrations of PAHs in soils at depths ranging from 0 to 5-feet below grade.

LLOEC "D" - Borings PSGP-9, PSGP-10, PSGP-15, PSGP-45, PSGP-46, PSGP-47, and PSGP-49

Analytical results from soil samples collected from borings PSGP-9, PSGP-10, PSGP-15, PSGP-45, PSGP-46, PSGP-47, and PSGP-49 indicated the presence of low concentrations of PAHs in soils at depths ranging from 0 to 15-feet below grade.

LLOEC "E" - Boring PSGP-36

Analytical results from the soil sample collected from boring PSGP-36 indicated the presence of low concentrations of ETPH and PAHs in soils at depths ranging from 13 to 15-feet below grade.

LLOEC "F" - Boring PSGP-53

Analytical results from the soil sample collected from boring PSGP-53 indicated the presence of low concentrations of PAHs in soils at depths ranging from 0 to 5-feet below grade.

LLOEC "G" - Boring PSGP-12

Analytical results from the soil sample collected from boring PSGP-12 indicated the presence of low concentrations of ETPH and PAHs in soils at depths ranging from 12 to 14-feet below grade.

LLOEC "H" - Boring PSGP-6

Analytical results from the soil sample collected from boring PSGP-6 indicated the presence of low concentrations of PAHs in soils at depths ranging from 13 to 15-feet below grade.

LLOEC "I" - Boring FMGP #01

Analytical results from the soil sample collected from force main boring FMGP #01 indicated the presence of low concentrations of ETPH and PAHs in soils at depths ranging from 0 to 3-feet below grade.

6.3 Groundwater Area of Environmental Concern (GWAOEC)

Entire Project Site

Analytical results from the groundwater samples collected from project site indicated the presence of VOCs, PAHs, total lead and dissolved arsenic at concentrations exceeding the applicable GP to Surface Water effluent limits. The concentration of total lead also exceeds the GP to Sanitary Sewer effluent limit. In addition, ETPH was detected in the groundwater at concentrations below the permit effluent limits.

7.0 RECOMMENDATIONS

The results of the Phase II Environmental Site Assessment conducted at the Site indicated the presence of ETPH, PAHs, pesticides, total arsenic, total lead, and leachable lead at concentrations above the applicable CTDEEP RSR criteria. Low concentrations of ETPH, VOCs, PAHs, and pesticides were also detected in the soil samples. Groundwater at the Site has been impacted with ETPH, VOCs, PAHs, total lead and dissolved arsenic at concentrations that exceed the CTDEEP GP to Surface Water effluent limits. In addition, the concentration of total lead exceeds the CTDEEP GP to Sanitary Sewer effluent limit. Therefore, dewatering fluids encountered during construction within the GWAOEC (Entire Site) may not be discharged **directly** to surface water or sanitary sewer without treatment. Dewatering fluids generated from the GWAOEC will require treatment prior to discharge to surface water or sanitary sewer in accordance with the CTDEEP's general permits or will require off-site disposal at a permitted treatment/disposal facility.

In addition, all underground storage tanks currently located on the site must be removed and closed in accordance with the CTDEEP regulations as specified in the Regulations of Connecticut State Agencies (RCSA) Sections 22a-449(d)-1, and Section 22a-449(d)-101 through 113 – Underground Storage Tank Regulations. The 1,000 gallon gasoline UST and 1,000 gallon heating oil UST are located adjacent to the sanitation building and the 1,500 gallon heating oil UST is located adjacent to the incinerator building. The tanks must be removed by a licensed tank removal contractor and confirmation samples must be collected from the tank grave in accordance with CTDEEP guidance for the Sampling and Analyical Methods for Underground Storage Tank Closure.

Special considerations for treatment/disposal/reuse, dewatering activities, and worker health & safety must be given to these areas in order to ensure compliance with all local, State and Federal laws. Environmental Plans, Specifications, and Estimate are therefore,

recommended for the areas of construction within the AOECs, LLAOECs and GWAOEC described in Section 6.0 above.

8.0 LIMITATIONS

All work product and reports provided by CDRM in connection with the performance of this Phase II Environmental Site Assessment are subject to the following limitations:

1. The observations described in this report were made under the conditions stated therein. The conclusions presented in the report were based solely upon the services described therein, and not on scientific tasks or procedures beyond the scope of described services provided to the City of Middletown.

2. In preparing this report, CDRM has relied on certain information provided by State and local officials and information and representations made by other parties referenced therein, and on information contained in the files of State and/or local agencies made available to CDRM at the time of this investigation. To the extent that such files are missing, incomplete or not provided to CDRM, CDRM is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, CDRM did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this investigation.

3. The conclusions and recommendations contained in this report are based in part upon the data from subsurface explorations. The nature and extent of variations between these explorations may not become evident until further explorations are completed. If variations or other latent conditions become evident, it will be necessary to re-evaluate the conclusions and recommendations of this report.

4. The water level readings made for this investigation were made at the times and conditions stated on the boring logs. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, passage of time and other factors. Should additional data become available in the future, these data

should be reviewed by CDRM, and the conclusions and recommendations presented herein modified accordingly.

5. Where quantitative laboratory analyses have been conducted by an outside certified laboratory, CDRM has relied upon the data provided, and has evaluated the data in accordance with CTDEEP DQA/DUE Guidance, but has not conducted an independent evaluation of the reliability of these tests.

6. If the conclusions and recommendations contained in this report are based, in part, upon various types of chemical data, then the conclusions and recommendations are contingent upon the validity of such data. These data have been reviewed and interpretations made in the report. It should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time, and other factors. Should additional chemical data become available in the future, these data should be reviewed by CDRM and the conclusions and recommendations presented herein modified accordingly.

7. Chemical analyses were performed for specific parameters during the course of this investigation, as described in the text. However, it should be noted that testing for all known chemical constituents was not performed. The conclusions and recommendations contained in this report are based only upon the chemical constituents for which testing was accomplished.

The following qualifications apply to the undersigned's opinion:

The activities described and opinions included herein are based on information gathered during this subsurface site investigation, which was limited in scope in adherence to the terms of our agreement. The professional opinion provided herein is based on the information described in this report.

The information contained herein was prepared for the use by the City solely in conjunction with the scope of work. The conclusions and recommendations set forth in this report are based on site conditions at the time of the investigation. Future studies and findings could change the contents of this report. The professional opinions presented in this report have been developed by using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental engineering consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional opinions included in this report.

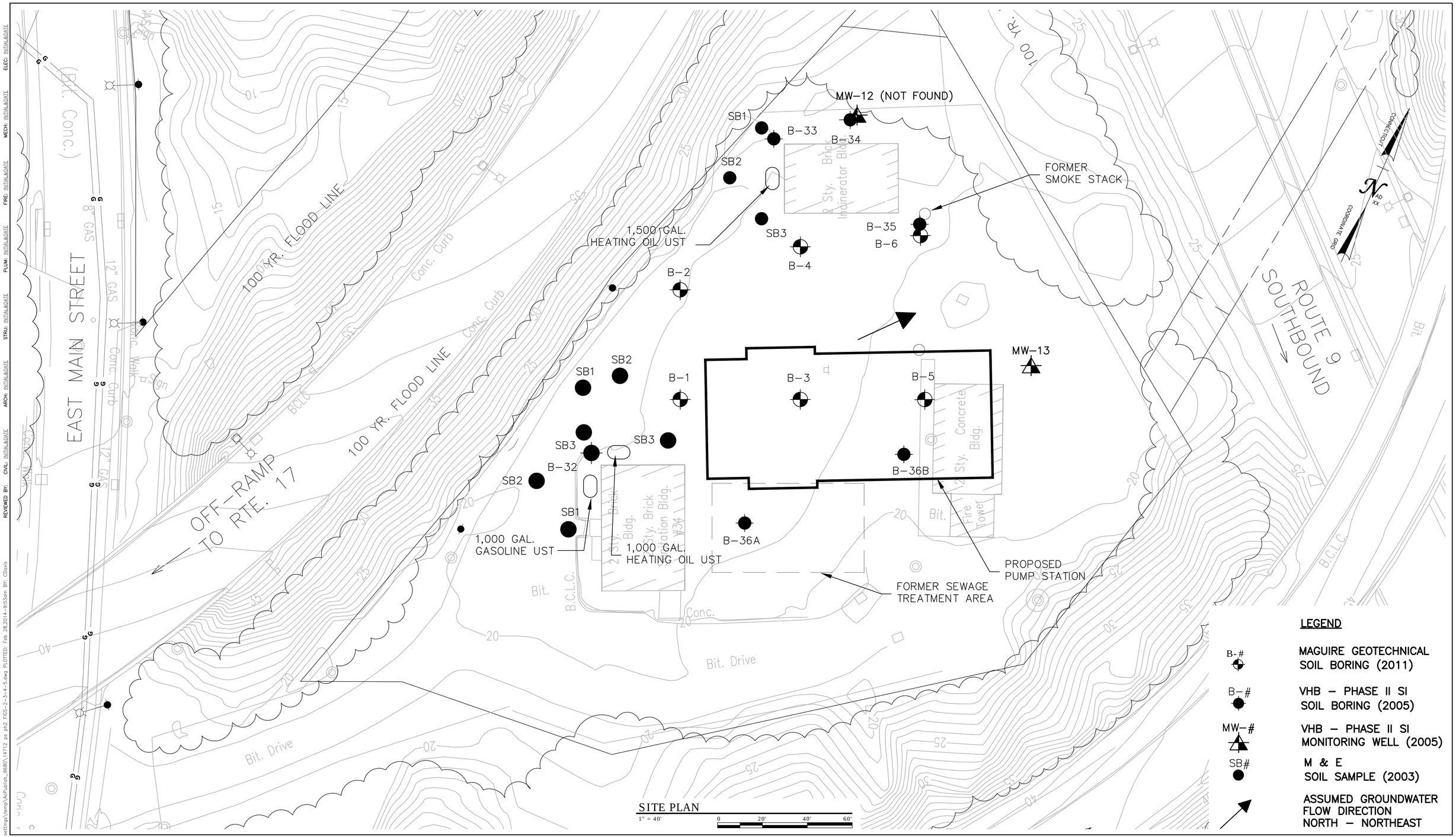
Prepared by:

Jane Witherell, PE, LEP, CHMM
Principal Engineer

Approved by:

David R. Stock, P.E.
Vice President

FIGURES



CDR MAGUIRE
Architects Engineers Planners
2080 Silas Deane Highway
Rocky Hill, Connecticut 06067

MARK	DATE	DESCRIPTION	BY	APP'D
1	2/27/14	REVISED PUMP STATION FOOTPRINT	CD	JW

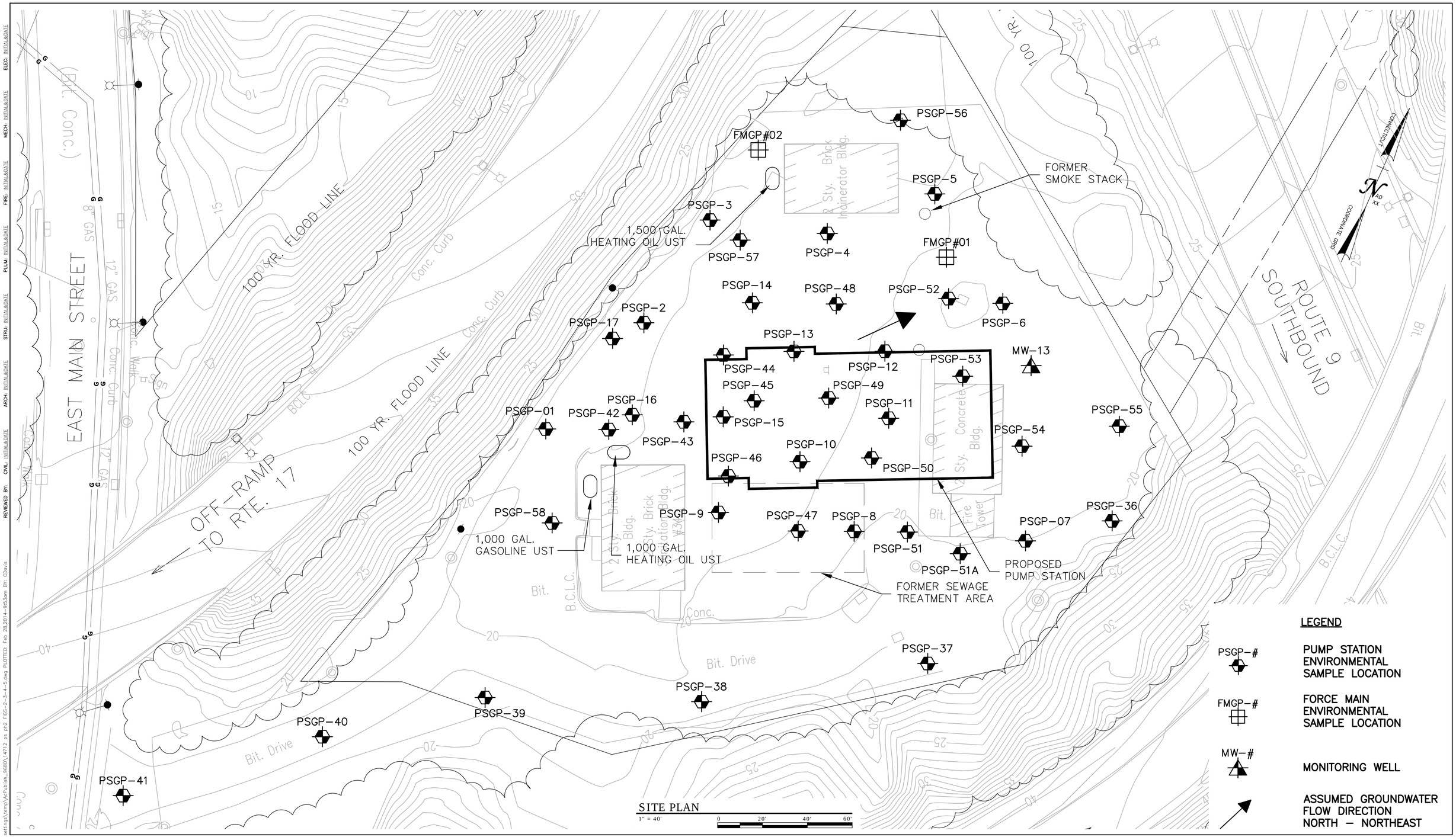
PROJECT NO.:	14712.01
DESIGNED BY:	JDW
DRAWN BY:	JDL
CHK'D BY:	
DATE:	FEBRUARY 2014
SCALE:	AS NOTED

MATTABASSETT REGIONALIZATION PROJECT
MIDDLETOWN, CONNECTICUT

PUMP STATION SITE
PHASE II ENVIRONMENTAL SITE ASSESSMENT
PREVIOUS INVESTIGATIONS
BORING LOCATION PLAN

FIG–2

DRAWING FILE: C:\Users\CDavis\Local settings\temp\AcPublish_0660\14712 ps ph2 FIGS-2-3-4-5.dwg PLOTTED: Feb 28,2014-9:53am BY: CDavis
REVIEWED BY: CIVIL: INITIAL&DATE ARCH: INITIAL&DATE STRU: INITIAL&DATE PLUM: INITIAL&DATE FIRE: INITIAL&DATE MECH: INITIAL&DATE ELEC: INITIAL&DATE



CDR MAGUIRE
Architects Engineers Planners
2080 Silas Deane Highway
Rocky Hill, Connecticut 06067

MARK	DATE	DESCRIPTION	BY	APP'D
1	2/27/14	REVISED PUMP STATION FOOTPRINT	CD	JW

PROJECT NO.:	14712.01
DESIGNED BY:	JDW
DRAWN BY:	JDL
CHK'D BY:	
DATE:	FEBRUARY 2014
SCALE:	AS NOTED

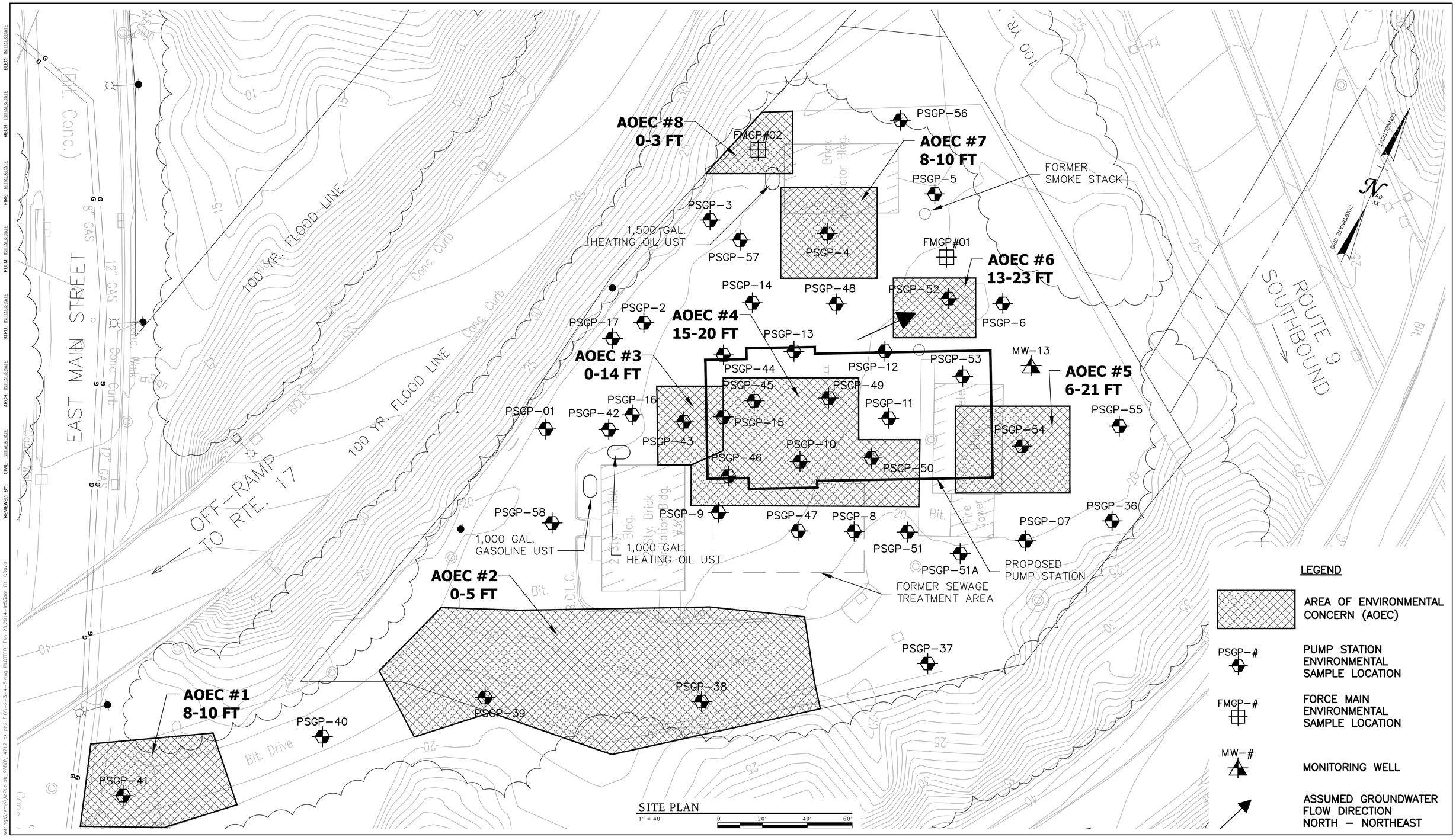
MATTABASSETT REGIONALIZATION PROJECT
MIDDLETOWN, CONNECTICUT

PUMP STATION SITE
PHASE II ENVIRONMENTAL SITE ASSESSMENT
BORING LOCATION PLAN

FIG–3

DRAWING FILE: C:\Users\CDavis\Local settings\temp\AcPublish_9680\14712 ps ph2 FIGS-2-3-4-5.dwg PLOTTED: Feb 28,2014-9:53am BY: CDavis

REVIEWED BY: CIVIL: INITIAL&DATE ARCH: INITIAL&DATE STRU: INITIAL&DATE PLUM: INITIAL&DATE FIRE: INITIAL&DATE MECH: INITIAL&DATE ELEC: INITIAL&DATE



SITE PLAN
1" = 40'
0 20' 40' 60'

CDR MAGUIRE
Architects Engineers Planners
2080 Silas Deane Highway
Rocky Hill, Connecticut 06067

MARK	DATE	DESCRIPTION	BY	APP'D
1	2/27/14	REVISED PUMP STATION FOOTPRINT	CD	JW

PROJECT NO.:	14712.01
DESIGNED BY:	JDW
DRAWN BY:	JDL
CHK'D BY:	
DATE:	FEBRUARY 2014
SCALE:	AS NOTED

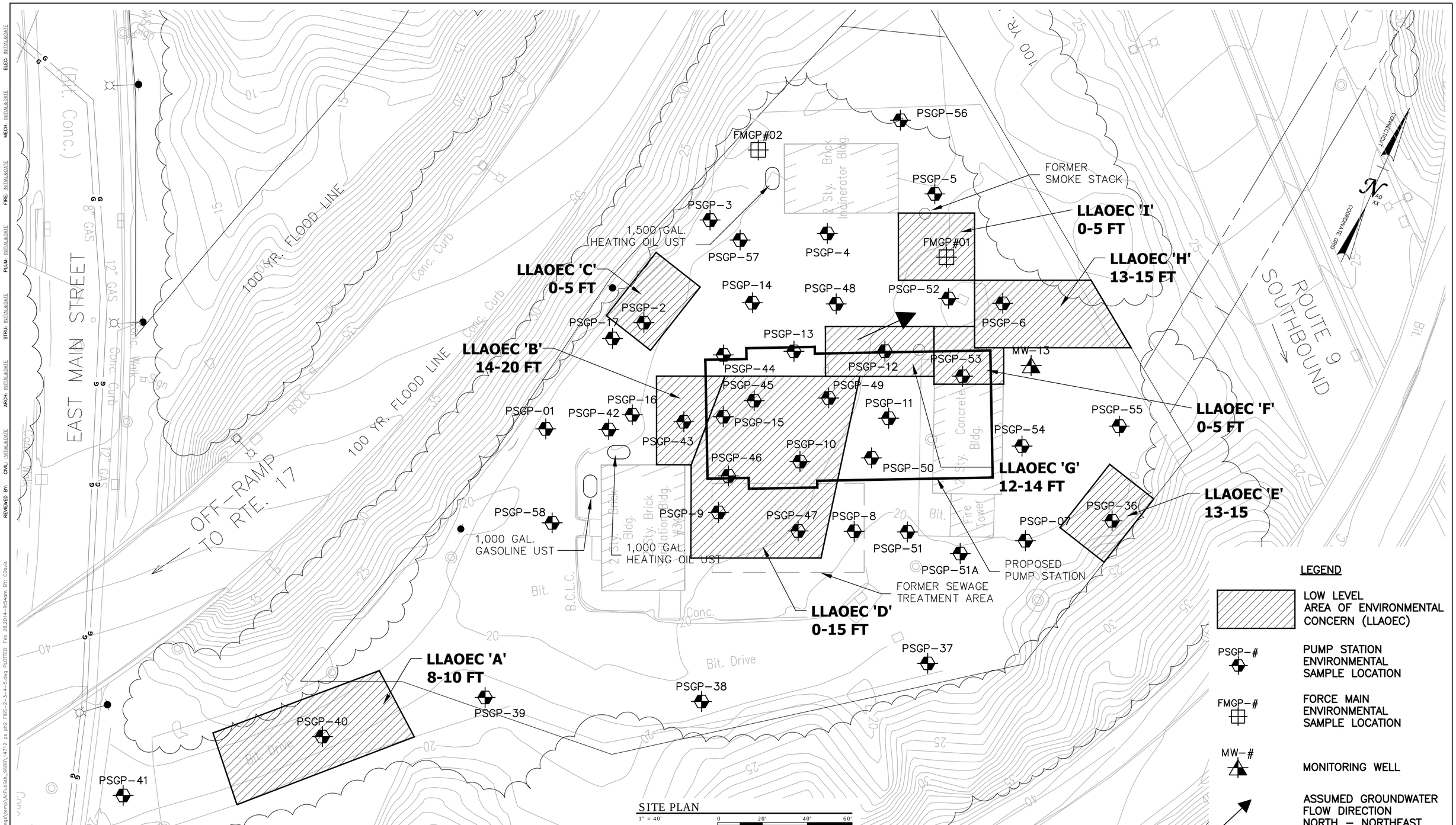
MATTABASSETT REGIONALIZATION PROJECT
MIDDLETOWN, CONNECTICUT

PUMP STATION SITE
PHASE II ENVIRONMENTAL SITE ASSESSMENT
AREAS OF ENVIRONMENTAL CONCERN

FIG–4

DRAWING FILE: C:\Users\CDavis\local settings\temp\AcPublish_9680\14712 ps ph2 FIGS-2-3-4-5.dwg PLOTTED: Feb 28,2014-9:53am BY: CDavis

REVIEWED BY: CIVIL: INITIAL&DATE ARCH: INITIAL&DATE STRU: INITIAL&DATE PLUM: INITIAL&DATE FIRE: INITIAL&DATE MECH: INITIAL&DATE ELEC: INITIAL&DATE



SITE PLAN
1" = 40'
0 20' 40' 60'

CDR MAGUIRE
Architects Engineers Planners
2080 Silas Deane Highway
Rocky Hill, Connecticut 06067

MARK	DATE	DESCRIPTION	BY	APP'D
1	2/27/14	REVISED PUMP STATION FOOTPRINT	CD	JW

PROJECT NO.:	14712.01
DESIGNED BY:	JDW
DRAWN BY:	JDL
CHK'D BY:	
DATE:	FEBRUARY 2014
SCALE:	AS NOTED

MATTABASSETT REGIONALIZATION PROJECT
MIDDLETOWN, CONNECTICUT

PUMP STATION SITE
PHASE II ENVIRONMENTAL SITE ASSESSMENT
LOW LEVEL
AREAS OF ENVIRONMENTAL CONCERN

FIG–5

REVIEWED BY: CIVIL: INITIAL&DATE ARCH: INITIAL&DATE STRU: INITIAL&DATE PLUM: INITIAL&DATE FIRE: INITIAL&DATE MECH: INITIAL&DATE ELEC: INITIAL&DATE

DRAWING FILE: C:\Users\CDavis\Local settings\Temp\AcPublish_9680\14712 ps ph2 FIGS-2-3-4-5.dwg PLOTTED: Feb 28,2014-9:54am BY: CDavis

TABLES

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Sample I.D.:	**PSGP-01**	**PSGP-2**	**PSGP-3**	**PSGP-4**	**PSGP-5**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	2/20/2013	2/22/2013	2/21/2013	2/21/2013	2/21/2013		
Sample Depth:	0'-2'	3-5'	3'-5'	8'-10'	8'-10'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	**750**	ND	2,500	**500/**2,500
VOCs - Method 8260 (mg/Kg)							
ALL PARAMETERS	ND	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)							
Naphthalene	ND	1.4	ND	ND	ND	56	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	ND	1.4	ND	ND	ND		
PCBs - Method 8082 (mg/Kg)							
ALL PARAMETERS	ND	ND	ND	ND	ND	0.005	1/10
Total RCRA 8 Metals (mg/Kg)							
Arsenic	1.6	1.2	2.0	1.7	2.0		10/10
Barium	50.8	32.3	40.4	42.0	27.5		4,700/140,000
Cadmium	<0.36	<0.38	<0.38	<0.38	<0.34	NOT	34/1,000
Chromium	16.1	8.57	11.5	9.9	8.14		3,900/51,000
Lead	7.47	4.12	5.92	91.9	3.87	APPLICABLE	400/1,000
Mercury	<0.07	<0.06	<0.08	<0.07	<0.07		20/610
Selenium	<1.4	<1.5	<1.5	<1.5	<1.3		340/10,000
Silver	<0.36	<0.38	<0.38	<0.38	<0.34		340/10,000
SPLP RCRA 8 Metals (mg/L)							
Arsenic	<0.004	<0.004	<0.004	0.008	0.004	0.5	
Barium	0.065	0.035	0.178	0.319	0.105	10	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	0.05	NOT
Chromium	<0.010	<0.010	<0.010	0.021	<0.010	0.5	
Lead	<0.010	<0.010	<0.010	**0.606**	<0.010	**0.15**	APPLICABLE
Mercury	<0.0004	<0.0004	<0.0004	0.0004	<0.0004	0.02	
Selenium	<0.020	<0.020	<0.020	<0.020	<0.020	0.5	
Silver	<0.010	<0.010	<0.010	<0.010	<0.010	0.36	

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	**PSGP-6**	**PSGP-07**	**PSGP-8**	**PSGP-9**	**PSGP-10**	**PSGP-11**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	2/25/2013	2/20/2013	2/25/2013	2/22/2013	2/22/2013	2/25/2013		
Sample Depth:	13'-15'	2'-4'	5'-7'	0'-2'	18'-20'	13'-15'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH (mg/Kg)	ND	ND	180	ND	**1,900**	ND	2,500	**500/**2,500
VOCs - Method 8260 (mg/Kg)								
1,2,4-Trimethylbenzene	ND	ND	ND	ND	2.3	ND	70	500/1,000
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.82	ND	70	500/1,000
1,4-Dichlorobenzene	ND	ND	ND	ND	0.64	ND	15	26/240
Chlorobenzene	ND	ND	ND	ND	0.42	ND	20	500/1,000
Naphthalene	ND	ND	ND	ND	1.6	ND	56	1,000/2,500
n-Butylbenzene	ND	ND	ND	ND	0.45	ND	14	500/1,000
n-Propylbenzene	ND	ND	ND	ND	0.29	ND	14	500/1,000
p-Isopropyltoluene	ND	ND	ND	ND	0.78	ND	41.8	500/1,000
Total Xylenes	ND	ND	ND	ND	0.84	ND	19.5	500/1,000
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)								
2-Methylnaphthalene	ND	ND	ND	ND	1.3	ND	84	1,000/2,500
Anthracene	ND	ND	ND	ND	0.33	ND	400	1,000/2,500
Benz(a)anthracene	0.47	ND	ND	0.29	0.55	ND	1	1/7.8
Benzo(a)pyrene	0.45	ND	ND	0.34	0.51	ND	1	1/1
Benzo(b)fluoranthene	0.62	ND	ND	0.46	0.76	ND	1	1/7.8
Benzo(g,h,i)perylene	0.28	ND	ND	ND	ND	ND	42	1,000/2,500
Benzo(k)fluoranthene	ND	ND	ND	ND	0.32	ND	1	8.4/78
Chrysene	0.46	ND	ND	0.34	0.69	ND	1	84/780
Fluoranthene	1.0	ND	ND	0.45	1.2	ND	56	1,000/2,500
Fluorene	ND	ND	ND	ND	0.27	ND	56	1,000/2,500
Naphthalene	ND	ND	ND	ND	0.35	ND	56	1,000/2,500
Phenanthrene	0.51	ND	ND	ND	1.3	ND	40	1,000/2,500
Pyrene	0.97	ND	ND	0.43	1.1	ND	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	4.76	ND	ND	2.31	8.68	ND		
PCBs - Method 8082 (mg/Kg)								
ALL PARAMETERS	ND	ND	ND	ND	ND	ND	0.005	1/10
Total RCRA 8 Metals (mg/Kg)								
Arsenic	2.3	2.3	1.4	3.1	3.1	2.0		10/10
Barium	104	66	64.5	42.7	114	68.3		4,700/140,000
Cadmium	<0.35	<0.42	<0.34	<0.38	<0.4	<0.34	NOT	34/1,000
Chromium	13.7	16.8	9.21	13.2	29.4	17.3		3,900/51,000
Lead	65.6	9.19	3.54	9.06	19.1	9.14	APPLICABLE	400/1,000
Mercury	<0.08	<0.08	<0.08	<0.06	<0.07	<0.07		20/610
Selenium	<1.4	<1.7	<1.4	<1.5	<1.6	<1.4		340/10,000
Silver	<0.80	<0.42	<0.80	<0.38	<0.4	<0.8		340/10,000
SPLP RCRA 8 Metals (mg/L)								
Arsenic	<0.004	<0.004	<0.004	<0.004	0.012	<0.004	0.5	
Barium	0.064	0.07	0.038	0.137	0.443	0.092	10	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05	NOT
Chromium	<0.010	<0.010	<0.010	<0.010	0.027	<0.010	0.5	
Lead	0.012	<0.010	<0.010	0.012	0.05	<0.010	0.15	APPLICABLE
Mercury	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.02	
Selenium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.5	
Silver	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.36	

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	PSGP-12	PSGP-13	PSGP-14	PSGP-15	PSGP-16	PSGP-17	CTDEEP PMC GB Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Date:	2/25/2013	2/22/2013	2/25/2013	2/22/2013	2/22/2013	2/22/2013		
Sample Depth:	12'-14'	5'-7'	3'-5'	2'-4'	18'-20'	1'-3'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station		
CT ETPH - (mg/Kg)	79	ND	ND	ND	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)								
ALL PARAMETERS	ND	ND	ND	ND	ND	ND	VARIES	VARIES
PAH's (mg/Kg)								
Benz(a)anthracene	ND	ND	ND	0.37	ND	ND	1	1/7.8
Benzo(a)pyrene	ND	ND	ND	0.35	ND	ND	1	1/1
Benzo(b)fluoranthene	0.27	ND	ND	0.49	ND	ND	1	1/7.8
Fluoranthene	0.66	ND	ND	ND	ND	ND	56	1,000/2,500
Fluorene	ND	ND	ND	0.37	ND	ND	56	1,000/2,500
Phenanthrene	ND	ND	ND	0.41	ND	ND	40	1,000/2,500
Pyrene	0.59	ND	ND	0.38	ND	ND	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	1.52	ND	ND	2.37	ND	ND		
PCBs - Method 8082 (mg/Kg)								
ALL PARAMETERS	ND	ND	ND	ND	ND	ND	0.005	1/10
Total RCRA 8 Metals (mg/Kg)								
Arsenic	3.0	7.3	2.2	3.1	1.1	2.5		10/10
Barium	95.7	64.1	74.7	57.1	48.4	74.6		4,700/140,000
Cadmium	<0.37	<0.39	<0.34	<0.40	<0.35	<0.37	NOT	34/1,000
Chromium	17.8	16.4	17.6	19.6	12.5	16.6		3,900/51,000
Lead	42.2	44.8	7.73	11.9	5.89	9.22	APPLICABLE	400/1,000
Mercury	0.29	<0.07	<0.07	<0.08	<0.08	<0.07		20/610
Selenium	<1.5	<1.6	<1.4	<1.6	<1.4	<1.5		340/10,000
Silver	<0.8	<0.39	<0.80	<0.40	<0.35	<0.37		340/10,000
SPLP RCRA 8 Metals (mg/L)								
Arsenic	0.006	0.074	<0.004	<0.004	0.006	<0.004	0.5	
Barium	0.067	0.625	0.144	0.9	0.064	0.114	10	
Cadmium	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.05	NOT
Chromium	<0.010	0.037	0.011	0.05	<0.010	<0.010	0.5	
Lead	<0.010	0.137	<0.010	0.023	<0.010	<0.010	0.15	APPLICABLE
Mercury	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	0.02	
Selenium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.5	
Silver	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.36	

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	PSGP-36	PSGP-37	PSGP-38	PSGP-39	PSGP-40	PSGP-41	CTDEEP PMC GB Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Date:	2/22/2013	2/20/2013	2/20/2013	2/20/2013	2/25/2013	2/25/2013		
Sample Depth:	5'-7'	3'-5'	3'-5'	1'-3'	8'-10'	8'-10'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	18	ND	**2,800**	**550**	ND	ND	**2,500**	**500/2,500**
VOCs - Method 8260 (mg/Kg)								
1,2,4-Trimethylbenzene	ND	ND	4.8	ND	ND	ND	70	500/1,000
1,3,5-Trimethylbenzene	ND	ND	1.8	ND	ND	ND	70	500/1,000
1,4-Dichlorobenzene	ND	ND	0.3	ND	0.64	ND	15	26/240
2-Isopropyltoluene	ND	ND	0.24	ND	ND	ND	41.8	500/1,000
Naphthalene	ND	ND	0.91	ND	ND	ND	56	1,000/2,500
n-Butylbenzene	ND	ND	1.1	ND	ND	ND	14	500/1,000
n-Propylbenzene	ND	ND	0.32	ND	ND	ND	14	500/1,000
p-Isopropyltoluene	ND	ND	0.67	ND	ND	ND	41.8	500/1,000
sec-Butylbenzene	ND	ND	0.7	ND	ND	ND	14	500/1,000
Toluene	ND	ND	0.38	ND	ND	ND	67	500/1,000
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)								
Acenaphthylene	ND	ND	ND	ND	0.28	ND	84	1,000/2,500
Benz(a)anthracene	0.66	ND	**1.6**	**1.6**	0.68	ND	**1**	**1/**7.8
Benzo(a)pyrene	0.69	ND	**1.7**	**1.8**	0.6	ND	**1**	**1/1**
Benzo(b)fluoranthene	0.96	ND	**2.5**	**2.8**	0.77	ND	**1**	**1/**7.8
Benzo(g,h,i)perylene	0.35	ND	ND	0.73	0.37	ND	42	1,000/2,500
Benzo(k)fluoranthene	0.39	ND	ND	0.79	0.28	ND	1	8.4/78
Chrysene	0.74	ND	**2**	**2.3**	0.82	ND	**1**	84/780
Fluoranthene	1.1	ND	2.8	2.7	1.4	0.42	56	1,000/2,500
Indeno(1,2,3-cd)pyrene	0.3	ND	ND	0.69	0.32	ND	1	1/7.8
Naphthalene	0.83	ND	ND	ND	ND	ND	56	1,00/2,500
Phenanthrene	0.73	ND	2.2	1.3	0.33	ND	40	1,000/2,500
Pyrene	0.9	ND	2.8	3	1.7	0.58	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	7.65	ND	15.6	17.71	7.55	1		
PCBs - Method 8082 (mg/Kg)								
ALL PARAMETERS	ND	ND	ND	ND	ND	ND	0.005	1/10
Total RCRA 8 Metals (mg/Kg)								
Arsenic	2	5.6	5	5.4	3.9	**19.9**		**10/10**
Barium	59	149	238	315	62.7	548		4,700/140,000
Cadmium	<0.38	<0.39	11.2	1.46	<0.41	<0.37	NOT	34/1,000
Chromium	10.5	15.8	34.2	20.5	14.3	19.2		3,900/51,000
Lead	55.3	63.2	**467**	**4,380**	122	**12,500**	APPLICABLE	**400/1,000**
Mercury	<0.70	<0.07	2.41	0.73	0.45	0.31		20/610
Selenium	<1.5	<1.6	<1.9	<1.5	<1.6	<1.5		340/10,000
Silver	<0.38	2.87	24.7	1.44	<0.80	<0.80		340/10,000
SPLP RCRA 8 Metals (mg/L)								
Arsenic	<0.004	<0.004	0.005	0.005	0.005	<0.004	0.5	
Barium	0.103	0.065	0.143	0.081	0.074	0.064	10	
Cadmium	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	0.05	NOT
Chromium	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.5	
Lead	<0.010	<0.010	**0.154**	0.018	0.056	0.019	**0.15**	APPLICABLE
Mercury	<0.0004	<0.0004	0.0012	<0.0004	<0.0004	<0.0004	0.02	
Selenium	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.5	
Silver	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	0.36	

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	**PSGP-42 1-5 FT**	**PSGP-42 9-13 FT**	**PSGP-42 15-20 FT**	**PSGP-43 1-5 FT**	**PSGP-43 10-14 FT**	**PSGP-43 14-20 FT**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	7/12/2013	7/12/2013	7/12/2013	7/11/2013	7/11/2013	7/11/2013		
Sample Depth:	1'-5'	9'-13'	15'-20'	1'-5'	10'-14'	14'-20'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	ND	**1,700**	ND	2,500	**500**/2,500
VOCs - Method 8260 (mg/Kg)								
Naphthalene	ND	ND	ND	ND	0.057	ND	56	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)								
Acenaphthylene	ND	ND	ND	0.45	ND	ND	84	1,000/2,500
Anthracene	ND	ND	ND	0.78	5.4	ND	400	1,000/2,500
Benz(a)anthracene	ND	ND	ND	**1.8**	**14**	0.36	**1**	**1**/7.8
Benzo(a)pyrene	ND	ND	ND	**1.5**	**9.7**	ND	**1**	**1/1**
Benzo(b)fluoranthene	ND	ND	ND	**2.1**	**15**	0.3	**1**	**1**/7.8
Benzo(g,h,i)perylene	ND	ND	ND	0.67	5.8	ND	42	1,000/2,500
Benzo(k)fluoranthene	ND	ND	ND	0.82	**5.6**	ND	**1**	8.4/78
Chrysene	ND	ND	ND	**1.7**	**14**	0.31	**1**	84/780
Fluoranthene	ND	ND	ND	4.9	30	0.77	56	1,000/2,500
Fluorene	ND	ND	ND	0.34	ND	ND	56	1,000/2,500
Indeno(1,2,3-cd)pyrene	ND	ND	ND	0.62	**5**	ND	**1**	**1**/7.8
Phenanthrene	ND	ND	ND	4.7	30	0.79	40	1,000/2,500
Pyrene	ND	ND	ND	3.8	23	0.58	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	ND	ND	ND	24.18	157.5	3.11		
PCBs - Method 8082 (mg/Kg)								
ALL PARAMETERS	ND	ND	ND	NOT TESTED	NOT TESTED	NOT TESTED	0.005	1/10
Total RCRA 8 Metals (mg/Kg)								
Lead	4.9	5.55	4.3	15.9	43	5.55	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)								
Lead	<0.010	0.035	<0.010	0.018	0.023	<0.010	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	PSGP-44 2-5 FT	PSGP-44 8-12 FT	PSGP-44 15-20 FT	PSGP-45 1-5 FT	PSGP-45 15-20 FT	CTDEEP PMC GB Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Date:	7/12/2013	7/12/2013	7/12/2013	7/11/2013	7/11/2013		
Sample Depth:	1'-5'	8'-12'	15'-20'	1'-5'	15'-20'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)							
Naphthalene	ND	ND	ND	ND	0.022	56	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)							
Acenaphthene	ND	ND	ND	ND	0.39	84	1,000/2,500
Anthracenene	ND	ND	ND	ND	1.1	400	1,000/2,500
Benz(a)anthracene	ND	ND	ND	0.45	**2.2**	**1**	**1**/7.8
Benzo(a)pyrene	ND	ND	ND	0.36	**1.5**	**1**	**1/1**
Benzo(b)fluoranthene	ND	ND	ND	0.54	**2.2**	**1**	**1**/7.8
Benzo(g,h,i)perylene	ND	ND	ND	0.28	0.79	42	1,000/2,500
Benzo(k)fluoranthene	ND	ND	ND	ND	0.87	1	8.4/78
Chrysene	ND	ND	ND	0.4	**2.1**	**1**	84/780
Fluoranthene	ND	ND	ND	0.69	4.7	56	1,000/2,500
Fluorene	ND	ND	ND	ND	0.53	56	1,000/2,500
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	0.74	1	1/7.8
Phenanthrene	ND	ND	ND	0.37	5.6	40	1,000/2,500
Pyrene	ND	ND	ND	0.59	3.6	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	ND	ND	ND	3.68	26.32		
PCBs - Method 8082 (mg/Kg)							
ALL PARAMETERS	ND	ND	ND	NOT TESTED	NOT TESTED	0.005	1/10
Total RCRA 8 Metals (mg/Kg)							
Lead	6.7	5.66	5.16	5.52	4.79	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)							
Lead	<0.010	<0.010	<0.010	<0.010	<0.010	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	**PSGP-46 1-5 FT**	**PSGP-46 15-20 FT**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	7/11/2013	7/11/2013		
Sample Depth:	1'-5'	15'-20'		
Sample Location:	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)				
Naphthalene	ND	0.018	56	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)				
Acenaphthene	ND	0.42	84	1,000/2,500
Anthracene	ND	1.6	400	1,000/2,500
Benz(a)anthracene	0.28	**4.2**	**1**	**1**/7.8
Benzo(a)pyrene	0.25	**2.8**	**1**	**1/1**
Benzo(b)fluoranthene	0.34	**4.7**	**1**	**1**/7.8
Benzo(g,h,i)perylene	ND	1.3	42	1,000/2,500
Benzo(k)fluoranthene	ND	**1.4**	**1**	8.4/78
Chrysene	0.31	**3.7**	**1**	84/780
Dibenz(a,h)anthracene	ND	0.4	1	1/1
Fluoranthene	0.53	7.5	56	1,000/2,500
Fluorene	ND	0.5	56	1,000/2,500
Indeno(1,2,3-cd)pyrene	ND	**1.3**	**1**	**1**/7.8
Phenanthrene	0.32	8.1	40	1,000/2,500
Pyrene	0.46	5.6	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	VARIES	VARIES
Total PAH's	2.49	43.52		
Total RCRA 8 Metals (mg/Kg)				
Lead	4.95	3.36	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)				
Lead	<0.010	<0.010	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	PSGP-47 1-5 FT	PSGP-47 10-15 FT	PSGP-47 15-20 FT	PSGP-48 2-5 FT	PSGP-48 15-20 FT	CTDEEP PMC GB Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Date:	6/25/2013	6/25/2013	6/25/2013	6/24/2013	6/24/2013		
Sample Depth:	1'-5'	10'-15'	15'-20'	2'-5'	15'-20'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	ND	ND	2,500	**500/2,500**
VOCs - Method 8260 (mg/Kg)							
ALL PARAMETERS	ND	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)							
Benz(a)anthracene	0.38	ND	ND	ND	ND	1	1/7.8
Benzo(a)pyrene	0.39	ND	ND	ND	ND	1	1/1
Benzo(b)fluoranthene	0.54	0.3	ND	ND	ND	1	1/7.8
Chrysene	0.36	ND	ND	ND	ND	1	84/780
Fluoranthene	0.59	ND	ND	ND	ND	56	1,000/2,500
Phenanthrene	0.32	ND	ND	ND	ND	40	1,000/2,500
Pyrene	0.52	ND	ND	ND	ND	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	3.1	ND	ND	ND	ND		
Total RCRA 8 Metals (mg/Kg)							
Lead	12.5	20.9	14.8	4.72	8.32	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)							
Lead	<0.010	0.018	<0.010	0.044	0.011	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	**PSGP-49 1-5 FT**	**PSGP-49 5-10 FT**	**PSGP-49 15-20 FT**	**PSGP-49 20-30 FT**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	6/25/2013	6/25/2013	6/25/2013	6/25/2013		
Sample Depth:	1'-5'	5'-10'	15'-20'	20'-30'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	**1,200**	ND	2,500	**500/**2,500
VOCs - Method 8260 (mg/Kg)						
1,2,4-Trimethylbenzene	ND	ND	1.9	ND	70	500/1,000
1,3,5-Trimethylbenzene	ND	ND	0.68	ND	70	500/1,000
1,4-Dichlorobenzene	ND	ND	0.53	ND	15	26/240
2-Isopropyltoluene	ND	ND	ND	ND	41.8	500/1,000
Naphthalene	ND	ND	1.4	ND	56	1,000/2,500
n-Butylbenzene	ND	ND	0.45	ND	14	500/1,000
p-Isopropyltoluene	ND	ND	0.71	ND	41.8	500/1,000
Total Xylenes	ND	ND	0.4	ND	19.5	500/1,000
ALL OTHER PARAMETERS	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)						
2-Methylnaphthalene	ND	ND	2	ND	9.8	474/2,500
Anthracene	ND	ND	0.7	ND	400	1,000/2,500
Benz(a)anthracene	0.56	0.54	**1.1**	ND	**1**	**1**/7.8
Benzo(a)pyrene	0.68	0.41	0.96	ND	1	1/1
Benzo(b)fluoranthene	0.84	0.53	**1.4**	ND	**1**	**1**/7.8
Benzo(g,h,i)perylene	0.29	ND	ND	ND	42	1,000/2,500
Benzo(k)fluoranthene	0.35	ND	0.49	ND	1	8.4/78
Chrysene	0.58	0.54	**1.2**	ND	**1**	84/780
Fluoranthene	1.1	1.2	2.6	ND	56	1,000/2,500
Fluorene	ND	ND	0.83	ND	56	1,000/2,500
Naphthalene	ND	ND	0.39	ND	56	1,00/2,500
Phenanthrene	0.34	1.2	2.9	ND	40	1,000/2,500
Pyrene	1.1	1	2.1	ND	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	5.84	5.42	16.67	ND		
Total RCRA 8 Metals (mg/Kg)						
Lead	6.12	9.91	73.7	7.62	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)						
Lead	<0.010	<0.010	<0.010	<0.010	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	PSGP-50 2-5 FT	PSGP-50 9-13 FT	PSGP-50 15-17 FT	CTDEEP PMC GB Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Date:	6/24/2013	6/24/2013	6/24/2013		
Sample Depth:	2'-5'	9'-13'	15'-17'		
Sample Location:	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)					
ALL PARAMETERS	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)					
ALL PARAMETERS	ND	ND	ND	VARIES	VARIES
Total PAH's	ND	ND	ND		
Total RCRA 8 Metals (mg/Kg)					
Lead	12.6	18.1	17.3	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)					
Lead	0.068	0.045	**0.272**	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	**PSGP-51 2-5 FT**	**PSGP-51 10-15 FT**	**PSGP-51A 25-30 FT**	**PSGP-51A 35-40 FT**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	6/24/2013	6/24/2013	6/25/2013	6/25/2013		
Sample Depth:	2'-5'	10'-15'	25'-30'	35'-40'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)						
ALL PARAMETERS	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)						
ALL PARAMETERS	ND	ND	ND	ND	VARIES	VARIES
Total RCRA 8 Metals (mg/Kg)						
Lead	16.1	56.4	8.91	8.29	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)						
Lead	0.025	0.062	<0.010	<0.010	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	**PSGP-52 2-5 FT**	**PSGP-52 13-15 FT**	**PSGP-52 23-25 FT**	**PSGP-52 31-35 FT**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	6/24/2013	6/24/2013	6/24/2013	6/24/2013		
Sample Depth:	2'-5'	13'-15'	23'-25'	31'-35'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)						
ALL PARAMETERS	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)						
Acenaphthylene	ND	0.34	ND	ND	84	1,000/2,500
Anthracene	ND	0.41	ND	ND	400	1,000/2,500
Benz(a)anthracene	ND	**2.6**	ND	ND	**1**	**1**/7.8
Benzo(a)pyrene	ND	**2.7**	ND	ND	**1**	**1/1**
Benzo(b)fluoranthene	ND	**3.3**	ND	ND	**1**	**1**/7.8
Benzo(g,h,i)perylene	ND	1.1	ND	ND	42	1,000/2,500
Benzo(k)fluoranthene	ND	**1.2**	ND	ND	**1**	8.4/78
Chrysene	ND	**2.4**	ND	ND	**1**	84/780
Dibenz(a,h)anthracene	ND	0.33	ND	ND	1	1/1
Fluoranthene	ND	4.8	ND	ND	56	1,000/2,500
Indeno(1,2,3-cd)pyrene	ND	**1.1**	ND	ND	**1**	**1**/7.8
Phenanthrene	ND	1.2	ND	ND	40	1,000/2,500
Pyrene	ND	4.5	ND	ND	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	ND	25.98	ND	ND		
Total RCRA 8 Metals (mg/Kg)						
Lead	5.97	38.5	3.75	1.67	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)						
Lead	0.045	0.019	<0.010	<0.010	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	**PSGP-53 1-5 FT**	**PSGP-53 10-15 FT**	**PSGP-53 25-30 FT**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	6/25/2013	6/25/2013	6/25/2013		
Sample Depth:	1'-5'	10'-15'	25'-30'		
Sample Location:	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)					
ALL PARAMETERS	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)					
Acenaphthylene	0.25	ND	ND	84	1,000/2,500
Benz(a)anthracene	0.51	ND	ND	1	1/7.8
Benzo(a)pyrene	0.7	ND	ND	1	1/1
Benzo(b)fluoranthene	0.82	ND	ND	1	1/7.8
Benzo(g,h,i)perylene	0.33	ND	ND	42	1,000/2,500
Benzo(k)fluoranthene	0.26	ND	ND	1	8.4/78
Chrysene	0.54	ND	ND	1	84/780
Fluoranthene	0.69	ND	ND	56	1,000/2,500
Indeno(1,2,3-cd)pyrene	0.26	ND	ND	1	1/7.8
Pyrene	0.73	ND	ND	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	VARIES	VARIES
Total PAH's	5.09	ND	ND		
Total RCRA 8 Metals (mg/Kg)					
Lead	10.2	23.3	11.6	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)					
Lead	<0.010	0.021	<0.010	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	PSGP-54 2-5 FT	PSGP-54 6-10 FT	PSGP-54 14-20 FT	PSGP-54 21-25 FT	PSGP-54 35-40 FT	CTDEEP PMC GB Groundwater Area	CTDEEP DEC Residential/ Commercial & Industrial
Sample Date:	7/11/2013	7/11/2013	7/11/2013	7/11/2013	7/11/2013		
Sample Depth:	2'-5'	6'-10'	14'-20'	21'-25'	35'-40'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	**3100**	ND	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)							
ALL PARAMETERS	ND	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)							
Acenaphthene	ND	ND	0.35	ND	ND	84	1,000/2,500
Anthracene	ND	ND	0.61	ND	ND	400	1,000/2,500
Benz(a)anthracene	ND	ND	1	ND	ND	1	1/7.8
Benzo(a)pyrene	ND	ND	0.91	ND	ND	1	1/1
Benzo(b)fluoranthene	ND	ND	**1.3**	ND	ND	**1**	**1**/7.8
Benzo(k)fluoranthene	ND	ND	0.47	ND	ND	1	8.4/78
Chrysene	ND	ND	1	ND	ND	1	84/780
Fluoranthene	ND	0.47	1.6	ND	ND	56	1,000/2,500
Fluorene	ND	ND	0.63	ND	ND	56	1,000/2,500
Phenanthrene	ND	0.42	2.4	ND	ND	40	1,000/2,500
Pyrene	ND	0.44	1.2	ND	ND	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	VARIES	VARIES
Total PAH's	ND	1.33	11.47	ND	ND		
Total RCRA 8 Metals (mg/Kg)							
Lead	8.05	**520**	**2,040**	23.4	11.6	N/A	**400/1,000**
SPLP RCRA 8 Metals (mg/L)							
Lead	0.036	**0.201**	**1.68**	0.053	0.016	**0.15**	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.:	**PSGP-55 2-5 FT**	**PSGP-56 2-5 FT**	**PSGP 57 1-5 FT**	**PSGP 58 2-5 FT**	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
Sample Date:	7/11/2013	6/24/2013	7/12/2013	7/13/2013		
Sample Depth:	2'-5'	2'-5'	1'-5'	2'-5'		
Sample Location:	Pump Station	Pump Station	Pump Station	Pump Station		
ETPH - CT ETPH Method (mg/Kg)	ND	ND	ND	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)						
ALL PARAMETERS	ND	ND	ND	ND	VARIES	VARIES
PAH's - Method 8270 (mg/Kg)						
ALL PARAMETERS	ND	ND	ND	ND	VARIES	VARIES
Total RCRA 8 Metals (mg/Kg)						
Lead	7.53	10.1	4.71	5.41	N/A	400/1,000
SPLP RCRA 8 Metals (mg/L)						
Lead	0.011	<0.010	<0.010	<0.010	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 1- Results of Geoprobe® Boring Soil Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Continued

Sample I.D.: Sample Depth: Sample Date:	FMGP #01 1'-3' 1/7/2013	FMGP #02 1'-3' 1/7/2013	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial &**
CT ETPH - (mg/Kg)	17	**1,100**	2,500	**500**/2,500
VOCs - Method 8260 (mg/Kg)				
ALL PARAMETERS	ND	ND	VARIES	VARIES
Chlorinated Herbicides (MG/Kg)				
ALL PARAMETERS	ND	ND	VARIES	VARIES
Polynuclear Aromatic HC (mg/Kg)				
Acenaphthene	ND	0.95	84	1,000/2,500
Acenaphthylene	ND	1.2	84	1,000/2,500
Anthracene	ND	2.8	400	1,000/2,500
Benzo(a)anthracene	0.29	**7.5**	**1**	**1/7.8**
Benzo(a)pyrene	0.34	**5.7**	**1**	**1/1**
Benzo(b)fluoranthene	0.5	**8.5**	**1**	**1/7.8**
Benzo(g,h,i)perylene	ND	3.2	42	1,000/2,500
Benzo(k)fluoranthene	ND	**2.4**	**1**	8.4/78
Chrysene	ND	**7.1**	**1**	84/780
Dibenz(a,h)anthracene	ND	1	1	1/1
Fluoranthene	ND	18	56	1,000/2,500
Fluorene	ND	0.99	56	1,000/2,500
Indeno(1,2,3-cd)pyrene	ND	**3**	**1**	**1/7.8**
Phenanthrene	ND	10	40	1,000/2,500
Pyrene	ND	16	40	1,000/2,500
ALL OTHER PARAMETERS	ND	ND	VARIES	VARIES
Total PAH's	1.13	88.34		
PCBs - Method 8082 (mg/Kg)				
ALL PARAMETERS	ND	ND	0.005	1/10
Pesticides (mg/Kg)				
4,4'-DDE	ND	0.061	NS	1.8/17
4,4'-DDT	ND	0.15	NS	1.8/17
d-BHC	ND	ND*	NS	0.097/0.91
Dieldrin	ND	**0.022**	**0.007**	0.038/0.36
ALL OTHER PARAMETERS	ND	ND	VARIES	VARIES
Total RCRA 8 Metals (mg/Kg)				
Arsenic	1.3	6.6		10/10
Barium	72.3	280		4,700/140,000
Cadmium	<0.39	2.26	NOT	34/1,000
Chromium	12	22.3		3,900/51,000
Lead	45.6	317	APPLICABLE	400/1,000
Mercury	<0.07	2.77		20/610
Selenium	<1.6	<1.6		340/10000
Silver	<10	<10		340/10000
SPLP RCRA 8 Metals (mg/L)				
Arsenic	0.004	<0.004	0.5	
Barium	0.324	0.067	10	
Cadmium	<0.005	<0.005	0.05	NOT
Chromium	0.032	0.014	0.5	
Lead	0.097	0.105	0.15	APPLICABLE
Mercury	<0.0004	<0.0005	0.02	
Selenium	<0.020	<0.020	0.5	
Silver	<0.010	<0.010	0.36	

TABLE 2 - Results of Groundwater Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Sample I.D.:	**MW-6**	**MW-13**	**MW-10**	**MW-40**	**PSGP-43 GW**	**CTDEEP GP to "B" Surface Water Effluent Limits**	**CTDEEP GP to Sanitary Sewer Effluent Limits**
Sample Date:	2/25/2013	2/21/2013	2/22/2013	2/25/2013	7/15/2013		
Sample Location:	PSGP-6	Existing Monitoring Well	PSGP-10	PSGP-40	PSGP-43		
Depth to Water (feet):	14	19.05	14	5	14		
ETPH - CT ETPH Method (mg/L)	0.4	ND	0.82	0.89	0.6	5.0	100.0
PCBs - Method 8082 (ug/L)							
ALL PARAMETERS	NA	ND	ND	ND	ND	0.5	1.0
VOCs - Method 8260 (ug/L)							
1,2,4-Trimethylbenzene	ND	ND	4.9	ND	22	None Established	None Established
1,3,5-Trimethylbenzene	ND	ND	1.5	ND	8.4	None Established	None Established
1,2,-Dichlorobenzene	ND	ND	1.1	ND	ND	None Established	None Established
1,4-Dichlorobenzene	ND	ND	2.8	ND	ND	None Established	None Established
Chlorobenzene	ND	ND	4.6	ND	ND	None Established	None Established
Methyl t-butyl ehter (MTBE)	ND	4.8	ND	ND	ND	70	None Established
Naphthalene	ND	ND	5.8	ND	5.2	None Established	None Established
n-Butylbenzene	ND	ND	ND	ND	3.6	None Established	None Established
n-Propylbenzene	ND	ND	ND	ND	4.7	None Established	None Established
p-Isopropyltoluene	ND	ND	2.1	ND	ND	None Established	None Established
sec-Butylbenzene	ND	ND	ND	ND	1.8	None Established	None Established
Toluene	1.4	ND	ND	ND	3.8	None Established	None Established
Total Xylenes	1.2	ND	4	ND	3.7	None Established	None Established
ALL OTHER PARAMETERS	ND	ND	ND	ND	ND	None Established	None Established
Total Chlorinated VOCs	ND	ND	8.5	ND	ND	None Established	1,000
Total VOCs	2.6	4.8	26.8	ND	**53.2**	**50**	5,000
PAHs - Method 8270 (ug/L)							
2-Methylnaphthalene	ND	0.18	8.2	0.33	8.4	None Established	None Established
Acenaphthene	ND	ND	3.7	0.23	5.5	None Established	None Established
Acenaphthylene	ND	ND	0.22	0.54	1	None Established	None Established
Anthracene	ND	ND	2.8	0.35	9.1	None Established	None Established
Benz(a)anthracene	**0.69**	0.02	**1.8**	**0.92**	**18**	**0.49**	None Established
Benzo(a)pyrene	**0.69**	0.02	**0.82**	**1.3**	**14**	**0.49**	None Established
Benzo(b)fluoranthene	0.91	ND	1.7	1.5	20	None Established	None Established
Benzo(g,h,i)perylene	0.47	ND	0.58	1.5	8	None Established	None Established
Benzo(k)fluoranthene	0.34	ND	**0.93**	**0.53**	**7**	**0.49**	None Established
Chrysene	0.59	ND	1.8	1	17	None Established	None Established
Dibenz(a,h)anthracene	**0.14**	ND	**0.23**	**0.32**	**2.4**	**0.01**	None Established
Fluoranthene	1.6	ND	9.2	2.7	41	None Established	None Established
Fluorene	ND	ND	4.1	0.23	7.7	None Established	None Established
Indeno(1,2,3-cd)pyrene	0.44	ND	**0.56**	**1.2**	6.9	**0.49**	None Established
Naphthalene	0.23	0.18	3.9	0.54	5.5	None Established	None Established
Phenanthrene	0.33	ND	8	0.68	45	None Established	None Established
Pyrene	1.5	ND	4.2	2.8	32	None Established	None Established
Total PAHs	**7.93**	0.4	**52.74**	**16.67**	**248.5**	**5**	500
Total RCRA 8 Metals (mg/L)							
Arsenic	NA	<0.004	0.023	<0.004	NOT TESTED	**0.004**	0.1
Barium	NA	0.855	1.95	0.341	NOT TESTED	None Established	5
Cadmium	NA	0.002	0.007	0.005	NOT TESTED	0.0959	0.1
Chromium	NA	0.001	0.236	0.04	NOT TESTED	1.0	1.0
Lead	NA	0.003	**0.203**	**0.22**	<0.002	**0.0936**	**0.1**
Mercury	NA	<0.0002	0.0009	0.001	NOT TESTED	0.0097	0.005
Selenuim	NA	0.014	<0.010	<0.016	NOT TESTED	0.39	1.0
Silver	NA	<0.001	<0.005	<0.002	NOT TESTED	0.048	0.1
Dissolved RCRA 8 Metals (mg/L)							
Arsenic	NA	**0.006**	<0.004	<0.004	NOT TESTED	**0.004**	0.1
Barium	NA	0.692	0.106	0.096	NOT TESTED	None Established	5
Cadmium	NA	<0.001	<0.001	0.007	NOT TESTED	0.0959	0.1
Chromium	NA	<0.001	<0.001	<0.001	NOT TESTED	1.0	1.0
Lead	NA	<0.002	<0.002	<0.002	<0.002	0.0936	0.1
Mercury	NA	<0.0002	<0.0002	<0.0002	NOT TESTED	0.0097	0.005
Selenium	NA	<0.011	<0.011	<0.011	NOT TESTED	0.39	1.0
Silver	NA	<0.001	<0.001	<0.001	NOT TESTED	0.048	0.1

ND – Not Detected (see laboratory reports for compound specific detection limits)
NA - Not Analyzed

TABLE 3-1 - Results of QA/QC Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Sample I.D.: Sample Date:	TB H 2/20/2013	TB L 2/20/2013	TB (LL) 3/5/2013	TB (HL) 3/5/2013	TB-1 LOW 6/25/2013	TB-1 HIGH 6/25/2013	TB-2 LOW 7/11/2013	TB-2 HIGH 7/11/2013	TB-3 LOW 7/12/2013	TB-3 HIGH 7/12/2013	**CTDEEP GP to "B" Surface Water Effluent Limits**	**CTDEEP GP to Sanitary Sewer Effluent Limits**
VOCs - Method 8260 (mg/Kg)												
ALL PARAMETERS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	VARIES	VARIES

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

TABLE 3-2 - Results of QA/QC Sample Analyses
Proposed Sewage Pump Station
Middletown, CT

Sample I.D.: Sample Date:	**FB-1** 6/24/2013	**CTDEEP PMC GB Groundwater Area**	**CTDEEP DEC Residential/ Commercial & Industrial**
ETPH - CT ETPH Method (mg/Kg)	ND	2,500	500/2,500
VOCs - Method 8260 (mg/Kg)			
ALL PARAMETERS	ND	VARIES	VARIES
SVOC's - Method 8270 (mg/Kg)			
Benz(a)anthracene	0.00003	1	1/7.8
Naphthalene	0.00029	56	1,00/2,500
ALL OTHER PARAMETERS	ND	VARIES	VARIES
Total PAH's	0.00032		
Total RCRA 8 Metals (mg/Kg)			
Lead	<0.002	N/A	500/1000
SPLP RCRA 8 Metals (mg/L)			
Lead	<0.002	0.15	N/A

ND – Not Detected (see laboratory reports for compound specific detection limits) The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

APPENDIX A
Boring Logs

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-1
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-20-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT - 3"	0.4		
1.0 2.0 3.0 4.0		Red-Brown fine to coarse SAND, little Cobble & fine to coarse Gravel, trace Silt	5.0	0	Macro Core 0'-5'
5.0 6.0 7.0 8.0 9.0 10.0		Refusal at 5' on Cobble Attempted 2 Offsets			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 5'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-2
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-22-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown fine to medium SAND, little fine to coarse Gravel, trace Silt	0.4		
1.0					
2.0					
				0	Macro Core 0'-5'
3.0					
4.0					
5.0		Red-Brown fine to medium SAND, trace Silt, fine to coarse Gravel & Cobble			
6.0					
7.0					
				0	Macro Core 5'-10'
8.0					
9.0					
10.0			10.0		
		End of Boring at 10'			
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-3
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-21-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Gray medium to coarse GRAVEL, mixed with fine to medium Sand, trace Silt	0.4		
1.0, 2.0, 3.0, 4.0		Red-Brown fine to medium SAND, little Silt	4.5	0	Macro Core 0'-5'
5.0, 6.0, 7.0, 8.0		Red-Brown fine to coarse SAND, trace Silt	8.0	0	Macro Core 5'-10'
9.0, 10.0		Red-Brown SILT, little fine to coarse Gravel, trace fine Sand	10.0		
11.0, 12.0		End of Boring at 10'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-4
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-21-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Gray to Black medium to coarse GRAVEL, little Cinders, trace fine to coarse Sand	1.0		
1.0					
2.0				0	Macro Core 0'-5'
3.0					
4.0		Red-Brown SILT, trace fine Sand & Gravel			
5.0					
6.0					
7.0				0	Macro Core 5'-10'
8.0			8.0		
9.0		Red-Brown SILT, little fine to coarse Gravel, trace fine Sand			
10.0			10.0		
11.0		End of Boring at 10'			
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-5
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-21-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
1.0, 2.0		Black to Gray ASH & CINDERS mixed with Concrete, Brick and fine to coarse Gravel	2.5	0	Macro Core 0'-5'
3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0		Red-Brown fine to medium SAND, little fine Gravel, trace Silt	10.0	0	Macro Core 5'-10'
10.0, 11.0, 12.0		End of Boring at 10'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-6
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
0.0 – 1.0		Brown fine to medium SAND & GRAVEL, trace Silt	1.0		
1.0 – 15.0		Orange-Brown to Light-Brown fine to medium SAND, little Silt, trace fine Gravel; Red-Brown fine to medium SAND, little Silt, trace fine Gravel, grading to Red-Brown SILT, little fine to medium Sand, trace fine Gravel (wet at 14')	15.0	0	Macro Core 0'-5'
				0	Macro Core 5'-10'
				0	Macro Core 10'-15'
15.0 – 20.0		End of Boring at 15' - Groundwater Grab Sample Collected			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 14'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 15'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-7
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-20-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Olive-Brown fine to medium SAND & GRAVEL	1.0		
		Orange-Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel	1.5		
		Brown SILT, little fine to coarse Gravel, trace fine Sand	3.0	0	Macro Core 0'-5'
		Red-Brown SILT, little fine to coarse Gravel, trace Cobble & fine Sand (TILL)	7.0		
		Black ASH & CINDERS, little fine to coarse Gravel, trace fine to coarse Sand (FILL)	10.0	0	Macro Core 5'-10'
10.0		End of Boring at 10'			

0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-8
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Gray fine to coarse Gravel, mixed with Brown fine to medium Sand, trace Silt	0.4		
		Orange-Brown to Light-Brown fine to medium SAND, little Silt, trace fine Gravel	1.0		
1.0					
2.0					
				0	Macro Core 0'-5'
3.0					
4.0		Red-Brown fine to medium SAND, little fine to coarse Cobble & Silt, trace fine to coarse Gravel			
5.0					
6.0				0	Macro Core 5'-7'
7.0			7.0		
8.0					
9.0					
10.0		Refusal at 7' on Concrete			
		Attempted 2 Offsets			
11.0					
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 7'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-9
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-22-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown fine SAND, little Silt, trace fine Gravel	0.4		
1.0 2.0		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble	3.0	0	Macro Core 0'-3'
3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0		Refusal at 3' on Concrete Attempted 2 Offsets			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 3'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-10
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-22-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	0.5		
1.0, 2.0, 3.0, 4.0, 5.0		Red-Brown fine to coarse SAND, little Silt, trace fine to coarse Gravel		0	Macro Core 0'-5'
6.0			6.0		
7.0, 8.0, 9.0, 10.0				0	Macro Core 5'-10'
11.0, 12.0, 13.0, 14.0, 15.0		Red-Brown SILT, trace Clay, fine Sand & Gravel (moist)		0	Macro Core 10'-15'
16.0, 17.0			17.0		
18.0		Red-Brown SILT, little Cobble, trace Clay, fine Sand & Gravel (moist)	18.5	28	Macro Core 15'-20'
19.0		Black ASH & CINDERS little Silt (Fuel Oil Odor, Wet)			
20.0		End of Boring at 20' - GW Grab Sample	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 14'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-11
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
0.0 – 1.0		Gray medium to coarse GRAVEL, mixed with fine to medium Sand, trace Silt	0.5		
1.0 – 4.0		Red-Brown fine to medium SAND, trace Silt & fine to coarse Gravel	4.0	0	Macro Core 0'-5'
4.0 – 15.0		Red-Brown fine to medium, little Silt, trace fine to coarse Gravel (very moist at 14')	15.0	0	Macro Core 5'-10'
				0.3	Macro Core 10'-15'
15.0 – 20.0		Refusal at 15' on Wood Creosote Odor			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 15'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-12
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Gray fine to medium GRAVEL, little Silt, trace fine to coarse Sand	1.0		
1.0		Orange-Brown to Light-Brown fine to medium SAND, trace Silt & fine Gravel			
2.0				0	Macro Core 0'-5'
3.0		Brown fine to coarse SAND, trace Silt	4.0		
4.0					
5.0					
6.0					
7.0				0	Macro Core 5'-10'
8.0					
9.0		Red-Brown SILT, little fine Sand, trace fine to coarse Gravel & Cobble (very moist at 14', Slight Petroleum Odor)			
10.0					
11.0					
12.0				0	Macro Core 10'-15'
13.0					
14.0					
15.0			15.0		
16.0		Refusal at 15' on Basalt Slight Petroleum Odor			
17.0					
18.0					
19.0					
20.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 15'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-13
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-22-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown SILT, trace fine Sand & fine to coarse Gravel	0.5		
1.0, 2.0, 3.0, 4.0, 5.0, 6.0		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble		0	Macro Core 0'-5'
7.0			7.0		
8.0, 9.0		Red-Brown SILT, trace fine to coarse Gravel, Cobble, & Clay (very moist)	10.0	0	Macro Core 5'-10'
10.0, 11.0, 12.0		Refusal at 10' on Concrete Attempted 2 Offsets			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-14
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Gray medium to coarse Gravel, mixed with Brown fine Sand & Silt	0.4		
1.0					
2.0					
				0	Macro Core 0'-5'
3.0					
4.0					
		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble			
5.0					
6.0					
7.0				0	Macro Core 5'-9'
8.0					
9.0			9.0		
10.0					
		Refusal at 9' on Concrete			
11.0		Attempted 2 Offsets			
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 9'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-15
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-22-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Brown fine SAND, little Silt, trace fine Gravel	0.4		
1.0 2.0 3.0		Red-Brown fine to medium SAND, little Silt & Cobble, trace fine to coarse Gravel	4.0	0	Macro Core 0'-4'
4.0 5.0 6.0 7.0 8.0 9.0 10.0		Refusal at 4' on Brick Attempted 2 Offsets - Refusal on Concrete			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 4'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-16
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-22-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Gray medium to coarse GRAVEL, little fine to medium Sand & Silt	0.5		
1.0		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel			
2.0		CONCRETE			
3.0				0	Macro Core 0'-5'
4.0					
5.0					
6.0					
7.0				0	Macro Core 5'-10'
8.0					
9.0					
10.0					
11.0		Red-Brown SILT, trace fine to medium Sand (moist at 15')			
12.0				0	Macro Core 10'-15'
13.0					
14.0					
15.0					
16.0					
17.0				0	Macro Core 15'-20'
18.0					
19.0					
20.0		Refusal at 20' - Set Well - Groundwater Not Encountered	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-17
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-22-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Gray medium to coarse Gravel, little fine to medium Sand & Silt	0.4		
1.0, 2.0, 3.0, 4.0		Red-Brown fine to medium SAND, trace Silt & fine to coarse Gravel	4.5	0	Macro Core 0'-5'
		Red-Brown SILT, trace fine Sand & Gravel	5.0		
5.0, 6.0, 7.0, 8.0, 9.0		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	10.0	0	Macro Core 5'-10'
10.0, 11.0, 12.0		End of Boring at 10'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-36
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-22-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Brown to Gray-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	0.4		
1.0, 2.0, 3.0, 4.0		Brown fine to medium SAND, mixed with fine to coarse Gravel, Brick, Concrete (FILL)	4.5	0	Macro Core 0'-5'
5.0		Dark-Gray to Black Organic SILT, trace fine Sand	5.5		
6.0, 7.0		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	7.5	0	Macro Core 5'-10'
8.0, 9.0		Gray ASH & CINDERS, little fine to coarse Gravel (FILL)	10.0		
10.0, 11.0, 12.0		End of Boring at 10'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-37
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-20-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown SILT, trace fine Sand & Gravel	0.4		
1.0		Red-Brown fine to medium SAND, little Silt, trace fine Gravel	1.5		
2.0, 3.0, 4.0		Brown fine SAND, little Silt mixed with Black Ash, Cinders & fine to coarse Gravel (FILL)	4.5	0	Macro Core 0'-5'
5.0, 6.0, 7.0, 8.0, 9.0		Red-Brown SILT, trace fine Sand & Gravel	10.0	0	Macro Core 5'-10'
10.0, 11.0, 12.0		End of Boring at 10'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-38
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-20-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT - 7"	0.6		
1.0		Olive-Brown fine to medium SAND, little fine to coarse Gravel, trace Silt			
2.0			2.0		
3.0		Gray-Brown SILT, trace Clay		3.7	Macro Core 0'-5'
4.0					
5.0			5.5		
6.0		Red-Brown SILT, little fine to medium Sand, trace fine Gravel & Organics		1.1	Macro Core 5'-10'
7.0					
8.0					
9.0					
10.0			10.0		
11.0		End of Boring at 10'			
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-39
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-20-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		ASPHALT - 2"			
1.0		Red-Brown fine to medium SAND, little Silt, trace fine Gravel	1.5		
2.0				0	Macro Core 0'-5'
3.0					
4.0					
5.0					
6.0		Gray to Black ASH & CINDERS mixed with Brick, Concrete, fine to medium Sand, fine to coarse Gravel, and Ceramics (FILL)			
7.0				0	Macro Core 5'-10'
8.0					
9.0					
10.0			10.0		
11.0		End of Boring at 10'			
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-40
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		ASPHALT - 3"			
		Gray fine to coarse GRAVEL mixed with Brown fine Sand	1.0		
1.0 – 5.0		Red-Brown SILT, little fine Sand, trace fine to coarse Gravel	5.0	0	Macro Core 0'-5'
5.0 – 10.0		Dark-Brown fine to medium SAND, little Silt (wet, Petroleum Odor)	10.0	4.7	Macro Core 5'-10'
10.0		End of Boring at 10'			
		Groundwater Grab Sample Collected			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 5'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-41
Location: Middletown, CT
Inspector: J. Buehler
Client: CDR Maguire
Date: 2-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
1.0, 2.0, 3.0, 4.0, 5.0		Brown SILT, little Concrete & Brick, trace fine Sand & Gravel (FILL)	5.0	0	Macro Core 0'-5'
6.0, 7.0, 8.0, 9.0, 10.0		Dark-Brown fine to coarse SAND, trace fine to coarse Gravel & Silt (wet)	10.0	0	Macro Core 5'-10'
11.0, 12.0		End of Boring at 10'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 5'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-42
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-12-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
1.0		Dark-Brown fine to medium SAND, little medium to coarse Gravel & Cobble	1.0		
2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0		Red-Brown fine to medium SAND, little Silt, trace Concrete, Coal & fine to coarse Gravel & Cobble		1.7	Macro Core 0'-5'
				0.8	Macro Core 5'-10'
9.0		Red-Brown SILT, trace fine to medium Sand (moist)	9.0		
10.0, 11.0, 12.0				0.7	Macro Core 10'-15'
13.0		Red-Brown to Brown SILT, with seams of fine to medium Sand, trace fine Gravel	13.0		
15.0, 16.0, 17.0, 18.0, 19.0				0.7	Macro Core 15'-20'
20.0		End of Boring at 20'	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-43
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-11-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Dark-Gray medium to coarse GRAVEL, little fine to medium Sand & Silt, trace Asphalt	1.0		
1.0–5.0				1.5	Macro Core 0'-5'
5.0–10.0		Red-Brown to Orange-Brown fine to coarse SAND, trace fine Gravel & Silt		0.9	Macro Core 5'-10'
10.0–14.0				6.9	Macro Core 10'-15'
14.0–20.0		Red-Brown to Gray-Brown fine to coarse SAND, little Silt, trace fine Gravel (wet, Petroleum Odor at Groundwater Interface, very loose)		2.0	Macro Core 15'-20'
20.0		End of Boring at 20'	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 14'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-44
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-12-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
1.0		Dark-Brown to Black fine to medium SAND, little medium to coarse Gravel, trace Silt & Asphalt Fragments (FILL)	2.0		
2.0		Red-Brown SILT, little fine to medium Sand with seams of fine to coarse Sand, trace fine to coarse Gravel		1.6	Macro Core 0'-5'
5.0				1.1	Macro Core 5'-10'
8.0		Red-Brown to Brown SILT, trace fine to medium Sand & Cobble (moist)	8.0	1.0	Macro Core 10'-15'
15.0				1.1	Macro Core 15'-20'
20.0		End of Boring at 20'	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-45
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-11-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
1.0		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	1.2		
2.0		Light-Brown to Dark-Brown fine to medium SAND, little fine to coarse Gravel		0.7	Macro Core 0'-5'
3.0					
4.0					
5.0					
6.0					
7.0				0.5	Macro Core 5'-10'
8.0		Red-Brown to Orange-Brown fine to coarse SAND, trace fine Gravel & Silt			
9.0					
10.0					
11.0					
12.0				0.3	Macro Core 10'-15'
13.0					
14.0					
15.0			15.0		
16.0					
17.0		Red-Brown to Gray-Brown fine to coarse SAND, little Silt, trace fine Gravel (wet, Petroleum Odor at Groundwater Interface, very loose)		0.2	Macro Core 15'-20'
18.0					
19.0					
20.0		End of Boring at 20'	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-46
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-11-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
1.0		Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel	1.2		
2.0		Light-Brown to Dark-Brown fine to medium SAND, little fine to coarse Gravel		1.6	Macro Core 0'-5'
5.0				1.1	Macro Core 5'-10'
10.0		Red-Brown to Orange-Brown fine to coarse SAND, trace fine Gravel & Silt		1.0	Macro Core 10'-15'
15.0			15.0		
16.0		Red-Brown to Gray-Brown fine to coarse SAND, little Silt, trace fine Gravel (wet, Petroleum Odor at Groundwater Interface, very loose)		1.1	Macro Core 15'-20'
20.0		End of Boring at 20'	20.0		

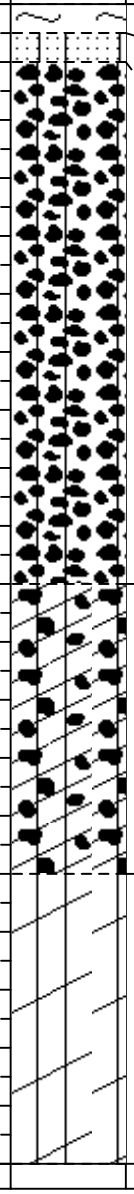
Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-47
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes



Depth (feet)	Description	Depth (feet)	PID (ppm)	Sample Interval
	Ground Surface	0.0		
0.0	Red-Brown SILT, trace fine Sand & fine to coarse Gravel	0.5		
1.0	Red-Brown fine to coarse SAND, little fine to coarse Gravel, trace Cobble, Brick, Asphalt Fragments & Concrete (FILL)	1.0		
2.0–5.0			0.9	Macro Core 0'-5'
5.0–10.0	Red-Brown SILT, little fine to coarse Gravel, trace fine Sand & Cobble (moist)	10.0	0.4	Macro Core 5'-10'
10.0–15.0	Red-Brown SILT, little Cobble, trace Clay, fine Sand & Gravel (moist)	15.0	1.1	Macro Core 10'-15'
15.0–20.0	Gray to Red-Brown SILT, trace Clay (wet at 18')		1.0	Macro Core 15'-20'
20.0	End of Boring at 20'	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 18'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-48
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-24-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Red-Brown SILT, trace fine Sand			
1.0		Light-Brown fine to medium SAND, trace Silt & fine Gravel	2.0		
2.0				1.6	Macro Core 0'-5'
3.0					
4.0					
5.0					
6.0					
7.0				0.7	Macro Core 5'-10'
8.0		Red-Brown SILT, little fine Sand, trace fine to coarse Gravel, Cobble, Coal, Brick & Concrete (FILL)			
9.0					
10.0					
11.0					
12.0				0.6	Macro Core 10'-15'
13.0					
14.0					
15.0			15.0		
16.0					
17.0		Red-Brown to Gray SILT, trace Clay (moist)		0.4	Macro Core 15'-20'
18.0					
19.0					
20.0		End of Boring at 20'	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 20'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-49
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
		Ground Surface	0.0		
0.0		Red-Brown SILT, trace fine Sand & fine to coarse Gravel	0.5		
1.0, 2.0, 3.0, 4.0		Red-Brown fine to medium SAND, little fine to coarse Gravel & Silt, trace Cobble, Brick, Asphalt Fragments & Concrete (FILL)	4.5	1.3	Macro Core 0'-5'
5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0		Red-Brown SILT, little fine to coarse Gravel, trace fine Sand & Cobble (moist)	18.0	1.5	Macro Core 5'-10'
				0.8	Macro Core 10'-15'
				0.5	Macro Core 15'-20'
18.0		Gray fine to coarse SAND, little Concrete (wet)	19.0		
19.0, 20.0		Gray to Red-Brown SILT, trace Clay (wet)	20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 18'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-49
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
21.0					
22.0					
23.0				0.7	Macro Core 20'-25'
24.0					
25.0					
26.0					
27.0					
28.0				1.3	Macro Core 25'-30'
29.0					
30.0		Gray to Red-Brown SILT, trace Clay with seams of fine to medium Sand (wet)			
31.0					
32.0					
33.0				0.3	Macro Core 30'-35'
34.0					
35.0					
36.0					
37.0					
38.0				0.2	Macro Core 35'-40'
39.0					
40.0		End of Boring at 40'	40.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 18'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-50
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-24-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
1.0		Light-Brown fine SAND, little fine to coarse Gravel, trace Silt	1.5		
2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0		Red-Brown SILT, little fine Gravel, trace Clay, fine Sand & Cobble (moist)	9.0	0.3	Macro Core 0'-5'
				2.6	Macro Core 5'-10'
10.0, 11.0, 12.0, 13.0, 14.0, 15.0		Red-Brown fine to medium SAND, trace fine to coarse Gravel (moist)	15.0	0.4	Macro Core 10'-15'
16.0, 17.0		Red-Brown SILT, little Clay & fine Gravel, trace fine Sand (very soft, wet)	17.0	0.8	Macro Core 15'-17'
18.0, 19.0, 20.0		Refusal at 17' on Concrete			

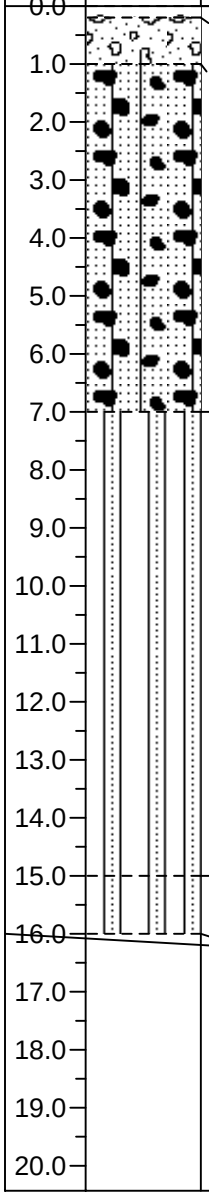
Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 15'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 17'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-51
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-24-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes



Depth (feet)	Description	Depth (feet)	PID (ppm)	Sample Interval
	Ground Surface	0.0		
0.0	Red-Brown SILT, trace fine Sand			
1.0	Light-Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt & Cobble	1.0		
2.0				
3.0			1.2	Macro Core 0'-5'
4.0	Red-Brown SILT, little fine to coarse Gravel, trace fine Sand			
5.0				
6.0				
7.0		7.0		
8.0			1.0	Macro Core 5'-10'
9.0				
10.0				
11.0	Red-Brown SILT, trace Clay, fine Sand & fine to coarse Gravel			
12.0				
13.0			0.7	Macro Core 10'-15'
14.0				
15.0		15.0		
	Red-Brown SILT, trace Clay, fine Sand & fine to coarse Gravel mixed with weathered Concrete (wet)	16.0	0.9	Macro Core 15'-16'
16.0				
17.0				
18.0	Refusal at 16' on Concrete			
19.0				
20.0				

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 15'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 16'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-51A
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown SILT, trace fine Sand	1.0		
		Light-Brown fine to medium SAND, little fine to coarse Gravel, trace Silt & Cobble	2.0		
		Brown SILT, little Brick, trace Coal (FILL)		0.9	Macro Core 0'-5'
		Red-Brown SILT, trace Clay, Cobble, fine Sand & fine to coarse Gravel	7.0	0.6	Macro Core 5'-10'
		Black ASH & CINDERS mixed with Black fine to medium Sand (wet at 12')	17.0	0.7	Macro Core 10'-15'
		Dark-Brown to Red-Brown SILT, little Clay, trace fine Sand (wet)	20.0	0.5	Macro Core 15'-20'

1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 12'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'
Page: 1 of 2

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-51A
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
21.0		Dark-Brown to Red-Brown SILT, little Clay, trace fine Sand (wet)		0.8	Macro Core 20'-25'
22.0					
23.0					
24.0					
25.0			25.0		
26.0		Red-Brown to Gray SILT, trace Clay with seams of Gray-Brown fine to coarse Sand (wet)			
27.0				0.8	Macro Core 25'-30'
28.0					
29.0					
30.0					
31.0				0.3	Macro Core 30'-35'
32.0					
33.0					
34.0					
35.0					
36.0				0.2	Macro Core 35'-40'
37.0					
38.0					
39.0					
40.0		End of Boring at 40'	40.0		

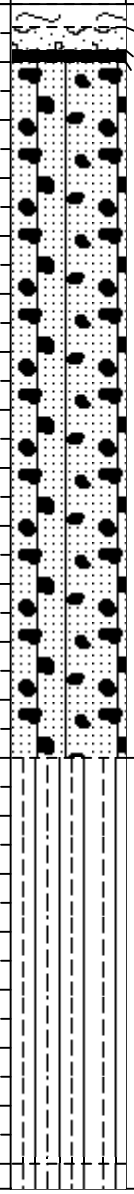
Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 12'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'
Page: 2 of 2

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-52
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-24-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes



Depth (feet)	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0	Ground Surface	0.0		
	Gray-Brown fine SAND, little Silt, trace fine Gravel	0.8		
	Light-Brown fine SAND, little fine to coarse Gravel, trace Silt			
	ASPHALT - 1"			
			1.1	Macro Core 0'-5'
	Red-Brown SILT, little fine to medium Gravel, trace Cobble		0.9	Macro Core 5'-10'
		13.0	1.0	Macro Core 10'-15'
	Dark-Brown SILT, trace Organics, Cobble, & fine to coarse Gravel		0.7	Macro Core 15'-17'
		20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 21'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-52
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-24-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
21.0, 22.0, 23.0		Dark-Brown SILT, trace Organics, Cobble, & fine to coarse Gravel (wet at 21')	23.0	0.9	Macro Core 20'-25'
24.0, 25.0, 26.0, 27.0, 28.0, 29.0, 30.0, 31.0		Red-Brown to Gray SILT, trace Clay (very soft, wet)	31.0	0.6	Macro Core 25'-30'
32.0, 33.0, 34.0, 35.0, 36.0, 37.0, 38.0, 39.0, 40.0		Gray fine to coarse SAND, trace to little Silt, trace fine Gravel (wet)		0.7	Macro Core 30'-35'
				0.4	Macro Core 35'-40'
		End of Boring at 40'	40.0		

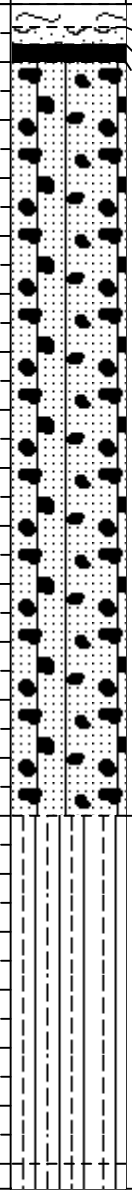
Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 21'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-53
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes



Depth (feet)	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0	Ground Surface	0.0		
	Gray-Brown fine SAND, little Silt, trace fine Gravel	0.7		
1.0	Light-Brown fine SAND, little fine to coarse Gravel, trace Silt			
2.0	ASPHALT - 2"			
3.0			1.4	Macro Core 0'-5'
4.0				
5.0				
6.0				
7.0			1.2	Macro Core 5'-10'
8.0	Red-Brown SILT, little fine to medium Gravel, trace Cobble			
9.0				
10.0				
11.0				
12.0			1.0	Macro Core 10'-15'
13.0				
14.0		14.0		
15.0				
16.0				
17.0	Dark-Brown SILT, trace Cobble & fine to coarse Gravel		0.9	Macro Core 15'-17'
18.0				
19.0				
20.0		20.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 20'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'
Page: 1 of 2

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-53
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-25-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
21.0		Dark-Brown SILT, trace Cobble, & fine to coarse Gravel (wet at 20')		0.6	Macro Core 20'-25'
22.0					
23.0					
24.0					
25.0			25.0		
26.0		Red-Brown to Gray SILT, trace Clay with seams of fine to coarse Sand (wet)		1.0	Macro Core 25'-30'
27.0					
28.0					
29.0					
30.0				0.5	Macro Core 30'-35'
31.0					
32.0					
33.0					
34.0					
35.0				0.2	Macro Core 35'-40'
36.0					
37.0					
38.0					
39.0					
40.0		End of Boring at 40'	40.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 20'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'
Page: 2 of 2

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-54
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-11-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Light-Brown to Dark-Brown fine to medium SAND, little Silt & fine to coarse Gravel	0.5		
		ASPHALT - 3"			
		Light-Brown to Dark-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & Cobble		1.3	Macro Core 0'-5'
			6.0		
		Black ASH & CINDERS mixed with Gray to Black fine to medium Sand, trace Glass (FILL)		0.7	Macro Core 5'-10'
				1.1	Macro Core 10'-15'
			14.0		
		Brown fine to coarse SAND, little Brick, trace Silt & fine to coarse Gravel with seams of Dark-Gray to Red-Brown Silt (wet, FILL)		0.9	Macro Core 15'-17'
			20.0		

1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 14'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-54
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-11-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
21.0		Brown fine to coarse SAND, little Brick, trace Silt & fine to coarse Gravel with seams of Dark-Gray to Red-Brown Silt (wet, FILL)	21.0		
22.0, 23.0, 24.0, 25.0				0.7	Macro Core 20'-25'
26.0, 27.0, 28.0, 29.0, 30.0		Red-Brown to Gray SILT, trace Clay with seams of fine to coarse Sand (wet)		0.6	Macro Core 25'-30'
31.0, 32.0, 33.0, 34.0, 35.0			35.0	0.7	Macro Core 30'-35'
36.0, 37.0, 38.0, 39.0		Red-Brown to Gray fine to medium SAND, little Silt, trace Clay (wet)		0.3	Macro Core 35'-40'
40.0		End of Boring at 40'	40.0		

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: 14'
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 40'
Page: 2 of 2

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-55
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-11-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown SILT, trace fine Sand	1.0		
		Light-Brown fine to medium SAND, little fine to coarse Gravel, trace Silt & Cobble	2.0		
		Brown SILT, little Brick, trace Coal (FILL)		0.4	Macro Core 0'-5'
		Red-Brown SILT, trace Clay, Cobble, fine Sand & fine to coarse Gravel		0.1	Macro Core 5'-10'
		Black ASH & CINDERS mixed with Black fine to medium Sand	9.0		
10.0		End of Boring at 10'	10.0		

1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-56
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 6-24-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown SILT, trace fine to medium Sand	0.3		
1.0		Black to Gray ASH & CINDERS mixed with Concrete, Brick and fine to coarse Gravel			
2.0			2.0		
3.0				0.7	Macro Core 0'-5'
4.0					
5.0					
6.0		Red-Brown fine to medium SAND, little fine Gravel, trace Silt			
7.0				0.2	Macro Core 5'-10'
8.0					
9.0					
10.0			10.0		
11.0		End of Boring at 10'			
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-57
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-12-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
1.0		Dark-Brown to Black fine to medium SAND, little medium to coarse Gravel, trace Silt & Asphalt Fragments (FILL)	2.0		
2.0				0.9	Macro Core 0'-5'
3.0					
4.0					
5.0		Red-Brown SILT, little fine to medium Sand with seams of fine to coarse Sand, trace fine to coarse Gravel			
6.0					
7.0				0.4	Macro Core 5'-10'
8.0			8.0		
9.0		Red-Brown to Brown SILT, trace fine to medium Sand & Cobble (moist)	10.0		
10.0					
11.0					
12.0					
13.0		End of Boring at 10'			
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Pump Station & Gravity Sewers
Boring: PSGP-58
Location: Middletown, CT
Inspector: M. Bazzano
Client: CDR Maguire
Date: 7-12-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		ASPHALT & medium to coarse GRAVEL	1.0		
		Red-Brown fine to medium SAND, little fine to coarse Gravel	2.0		
				1.4	Macro Core 0'-5'
		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel (moist at 9')		0.7	Macro Core 5'-10'
			10.0		
		End of Boring at 10'			

0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0

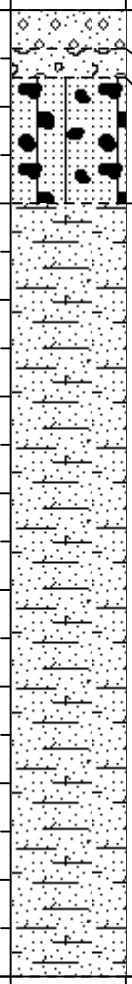
Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 10'
Page: 1 of 1

SOIL BORING LOG

Project: Force Main Geoprobe Investigation
Boring: FMGP-1
Location: Middletown, CT
Inspector: L. Lindenberger
Client: CDR Maguire
Date: 1-7-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes



Depth (feet)	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0	Ground Surface	0.0		
	Red-Brown fine to coarse SAND, trace fine to coarse Gravel & SIlt	0.4		
	Olive-Brown fine SAND & GRAVEL	0.7		
	Orange-Brown to Brown fine SAND, little Silt & fine to coarse Gravel	2.0		
			0.1	Macro Core 0'-5'
	Red-Brown fine to coarse SAND, with seams of SILT and SANDSTONE		0	Macro Core 5'-10'
10.0		10.0		
	End of Soil Sampling at 10'			
	Pre-probed to 16' - GW not encountered			

Depth scale: 0.0, 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0, 9.0, 10.0, 11.0, 12.0

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 16'
Page: 1 of 1

SOIL BORING LOG

Project: Force Main Geoprobe Investigation
Boring: FMGP-2
Location: Middletown, CT
Inspector: L. Lindenberger
Client: CDR Maguire
Date: 1-7-13

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Dark-Brown SILT, trace fine Sand	0.5		
1.0					
2.0				0.4	Macro Core 0'-5'
3.0					
4.0					
5.0		Crushed ASPHALT mixed with Cinders, Ash, & Black fine to medium SAND, little Silt (FILL)			
6.0					
7.0				0	Macro Core 5'-10'
8.0					
9.0					
10.0			10.0		
		End of Soil Sampling at 10'			
11.0		Pre-probed to 18' - GW not encountered			
12.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry
Depth to Water: Dry
Boring Dia.: 2"
Rig: Geoprobe 540U
Boring Depth: 18'
Page: 1 of 1

APPENDIX B
Laboratory Reports

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 24, 2013

Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: MIDDLETOWN SEWER PROJECT
Sample ID#s: BF04345 - BF04359

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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

NY # 11301

SDG Comments

July 24, 2013

SDG I.D.: GBF04345

VOA comments:
BF04347:
The soil jar contained a light brown soil, one of the LL contained light brown soil, the other LL and the HL contained dark brown soil. (The LL consistent with the soil jar was analyzed).

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	9:05
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04345

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	15.9	0.36	mg/Kg	07/12/13	EK	SW6010
SPLP Lead	0.018	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	91		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	53	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	74		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 1-5 FT

Phoenix I.D.: BF04345

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	35	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 1-5 FT

Phoenix I.D.: BF04345

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	95		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	97		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	97		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	450	250	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	780	250	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	1800	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	1500	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	2100	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	670	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	820	250	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	1700	250	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	4900	250	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	340	250	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	620	250	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	4700	250	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	3800	250	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	94		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	83		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	84		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04345

Client ID: PSGP-43 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	9:15
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04346

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 10-4 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	43.0	0.33	mg/Kg	07/12/13	EK	SW6010
SPLP Lead	0.023	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	92		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	1700	270	mg/Kg	07/15/13	JRB	CT ETPH/8015
Identification	**		mg/Kg	07/15/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	Diluted Out		%	07/15/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 10-4 FT

Phoenix I.D.: BF04346

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	33	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	57	5.5	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 10-4 FT

Phoenix I.D.: BF04346

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	93		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	95		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	2500	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	2500	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	2500	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	5400	2500	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	14000	2500	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	9700	2500	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	15000	2500	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	5800	2500	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	5600	2500	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	14000	2500	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	2500	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	30000	2500	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	2500	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	5000	2500	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	2500	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	30000	2500	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	23000	2500	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	*Diluted Out		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	*Diluted Out		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	*Diluted Out		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04346

Client ID: PSGP-43 10-4 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C12 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 24, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	9:25
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04347

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 14-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	5.55	0.35	mg/Kg	07/12/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	87		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	57	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	76		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	07/15/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 14-20 FT

Phoenix I.D.: BF04347

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
2-Hexanone	ND	25	ug/Kg	07/15/13	H/J	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	07/15/13	H/J	SW8260
Acetone	ND	30	ug/Kg	07/15/13	H/J	SW8260
Acrylonitrile	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Benzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Bromobenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Bromochloromethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Bromoform	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Bromomethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Chlorobenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Chloroethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Chloroform	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Chloromethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	07/15/13	H/J	SW8260
Dibromomethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Ethylbenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
m&p-Xylene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	07/15/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	07/15/13	H/J	SW8260
Methylene chloride	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Naphthalene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
o-Xylene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Styrene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	07/15/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 14-20 FT

Phoenix I.D.: BF04347

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Total Xylenes	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	07/15/13	H/J	SW8260
Trichloroethene	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
Vinyl chloride	ND	5.1	ug/Kg	07/15/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	07/15/13	H/J	70 - 130 %
% Bromofluorobenzene	96		%	07/15/13	H/J	70 - 130 %
% Dibromofluoromethane	99		%	07/15/13	H/J	70 - 130 %
% Toluene-d8	102		%	07/15/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	360	270	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	300	270	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	310	270	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	770	270	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	790	270	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	580	270	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	88		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	78		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	96		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04347

Client ID: PSGP-43 14-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	11:20
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04348

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-45 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	5.52	0.38	mg/Kg	07/12/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	92		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	53	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	75		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-45 1-5 FT

Phoenix I.D.: BF04348

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	31	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	37	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	3.7	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-45 1-5 FT

Phoenix I.D.: BF04348

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	96		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	94		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	97		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	96		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	450	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	360	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	540	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	280	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	400	250	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	690	250	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	370	250	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	590	250	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	95		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	81		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	87		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04348

Client ID: PSGP-45 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	11:45
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04349

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-45 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	4.79	0.32	mg/Kg	07/12/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	93		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	52	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	68		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/13/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-45 15-20 FT

Phoenix I.D.: BF04349

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/13/13	R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/13/13	R/J	SW8260
Acetone	ND	35	ug/Kg	07/13/13	R/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Benzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Bromoform	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Chloroform	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/13/13	R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/13/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/13/13	R/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Naphthalene	22	5.9	ug/Kg	07/13/13	R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Styrene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/13/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-45 15-20 FT

Phoenix I.D.: BF04349

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/13/13	R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	07/13/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	07/13/13	R/J	70 - 130 %
% Bromofluorobenzene	93		%	07/13/13	R/J	70 - 130 %
% Dibromofluoromethane	104		%	07/13/13	R/J	70 - 130 %
% Toluene-d8	100		%	07/13/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	390	240	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	240	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	1100	240	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	2200	240	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	1500	240	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	2200	240	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	790	240	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	870	240	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	2100	240	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	240	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	4700	240	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	530	240	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	740	240	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	240	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	5600	240	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	3600	240	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	99		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	91		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	87		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04349

Client ID: PSGP-45 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	12:55
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04350

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-46 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	4.95	0.32	mg/Kg	07/12/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	93		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	52	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	78		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.4	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-46 1-5 FT

Phoenix I.D.: BF04350

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	7	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	37	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	37	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	44	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	4.4	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	44	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-46 1-5 FT

Phoenix I.D.: BF04350

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	7.4	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	96		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	101		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	96		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	280	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	250	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	340	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	310	250	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	530	250	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	320	250	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	460	250	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	89		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	83		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	93		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04350

Client ID: PSGP-46 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	13:30
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04351

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-46 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	3.36	0.34	mg/Kg	07/12/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	93		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	53	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	76		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-46 15-20 FT

Phoenix I.D.: BF04351

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	35	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	18	5.8	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-46 15-20 FT

Phoenix I.D.: BF04351

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	95		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	96		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	420	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	1600	250	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	4200	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	2800	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	4700	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	1300	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	1400	250	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	3700	250	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	400	250	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	7500	250	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	500	250	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	1300	250	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	8100	250	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	5600	250	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	98		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	88		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	83		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04351

Client ID: PSGP-46 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	5:45
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04352

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	8.05	0.39	mg/Kg	07/12/13	EK	SW6010
SPLP Lead	0.036	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	91		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	55	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	68		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 2-5 FT

Phoenix I.D.: BF04352

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	35	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 2-5 FT

Phoenix I.D.: BF04352

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	97		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	95		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	93		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	97		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	87		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	83		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	102		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04352

Client ID: PSGP-54 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	5:55
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04353

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 6-10 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	520	5.0	mg/Kg	07/13/13	LK	SW6010
SPLP Lead	0.201	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	61		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	3100	810	mg/Kg	07/16/13	JRB	CT ETPH/8015
Identification	**		mg/Kg	07/16/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	Diluted Out		%	07/16/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,1,1-Trichloroethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	240	ug/Kg	07/16/13	H/J	SW8260
1,1,2-Trichloroethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,1-Dichloroethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,1-Dichloroethene	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,1-Dichloropropene	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,2,3-Trichloropropane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	410	ug/Kg	07/16/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 6-10 FT

Phoenix I.D.: BF04353

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,2-Dichlorobenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,2-Dichloroethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,2-Dichloropropane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,3-Dichlorobenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,3-Dichloropropane	ND	410	ug/Kg	07/16/13	H/J	SW8260
1,4-Dichlorobenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
2,2-Dichloropropane	ND	410	ug/Kg	07/16/13	H/J	SW8260
2-Chlorotoluene	ND	410	ug/Kg	07/16/13	H/J	SW8260
2-Hexanone	ND	2000	ug/Kg	07/16/13	H/J	SW8260
2-Isopropyltoluene	ND	410	ug/Kg	07/16/13	H/J	SW8260
4-Chlorotoluene	ND	410	ug/Kg	07/16/13	H/J	SW8260
4-Methyl-2-pentanone	ND	2000	ug/Kg	07/16/13	H/J	SW8260
Acetone	ND	2400	ug/Kg	07/16/13	H/J	SW8260
Acrylonitrile	ND	410	ug/Kg	07/16/13	H/J	SW8260
Benzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Bromobenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Bromochloromethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
Bromodichloromethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
Bromoform	ND	410	ug/Kg	07/16/13	H/J	SW8260
Bromomethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
Carbon Disulfide	ND	410	ug/Kg	07/16/13	H/J	SW8260
Carbon tetrachloride	ND	410	ug/Kg	07/16/13	H/J	SW8260
Chlorobenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Chloroethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
Chloroform	ND	410	ug/Kg	07/16/13	H/J	SW8260
Chloromethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	410	ug/Kg	07/16/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Dibromochloromethane	ND	240	ug/Kg	07/16/13	H/J	SW8260
Dibromomethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
Dichlorodifluoromethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
Ethylbenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Hexachlorobutadiene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Isopropylbenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
m&p-Xylene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Methyl Ethyl Ketone	ND	2400	ug/Kg	07/16/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	810	ug/Kg	07/16/13	H/J	SW8260
Methylene chloride	ND	410	ug/Kg	07/16/13	H/J	SW8260
Naphthalene	ND	410	ug/Kg	07/16/13	H/J	SW8260
n-Butylbenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
n-Propylbenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
o-Xylene	ND	410	ug/Kg	07/16/13	H/J	SW8260
p-Isopropyltoluene	ND	410	ug/Kg	07/16/13	H/J	SW8260
sec-Butylbenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Styrene	ND	410	ug/Kg	07/16/13	H/J	SW8260
tert-Butylbenzene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Tetrachloroethene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	810	ug/Kg	07/16/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 6-10 FT

Phoenix I.D.: BF04353

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Total Xylenes	ND	410	ug/Kg	07/16/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	410	ug/Kg	07/16/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	410	ug/Kg	07/16/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	810	ug/Kg	07/16/13	H/J	SW8260
Trichloroethene	ND	410	ug/Kg	07/16/13	H/J	SW8260
Trichlorofluoromethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
Trichlorotrifluoroethane	ND	410	ug/Kg	07/16/13	H/J	SW8260
Vinyl chloride	ND	410	ug/Kg	07/16/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	96		%	07/16/13	H/J	70 - 130 %
% Bromofluorobenzene	99		%	07/16/13	H/J	70 - 130 %
% Dibromofluoromethane	97		%	07/16/13	H/J	70 - 130 %
% Toluene-d8	97		%	07/16/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	470	380	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	380	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	420	380	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	440	380	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	83		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	73		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	85		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04353

Client ID: PSGP-54 6-10 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

Elevated reporting limits for volatiles due to dilution for sample matrix. Low-level samples were analyzed with poor internal standard response.

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	6:00
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04354

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 14-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	2040	42	mg/Kg	07/13/13	LK	SW6010
SPLP Lead	1.68	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	72		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	69	mg/Kg	07/15/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	103		%	07/15/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.6	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 14-20 FT

Phoenix I.D.: BF04354

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	7	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	38	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	38	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	46	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	4.6	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	46	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 14-20 FT

Phoenix I.D.: BF04354

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	7.6	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	95		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	81		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	92		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	320	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	350	320	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	320	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	610	320	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	1000	320	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	910	320	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	1300	320	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	320	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	470	320	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	1000	320	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	320	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	1600	320	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	630	320	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	320	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	320	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	2400	320	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	1200	320	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	89		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	83		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04354

Client ID: PSGP-54 14-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	6:05
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04355

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 21-25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	23.4	0.38	mg/Kg	07/12/13	EK	SW6010
SPLP Lead	0.053	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	85		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	58	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	71		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 21-25 FT

Phoenix I.D.: BF04355

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	31	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	37	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	3.7	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 21-25 FT

Phoenix I.D.: BF04355

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	6.2	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	95		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	95		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	ND	270	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	90		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	85		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	103		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04355

Client ID: PSGP-54 21-25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	6:40
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04356

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 35-40 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	11.6	0.44	mg/Kg	07/12/13	LK	SW6010
SPLP Lead	0.016	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	75		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	66	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	71		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 35-40 FT

Phoenix I.D.: BF04356

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	35	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	35	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	42	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	4.2	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	42	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-54 35-40 FT

Phoenix I.D.: BF04356

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	6.9	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	92		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	89		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	97		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	97		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	ND	300	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	69		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	101		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04356

Client ID: PSGP-54 35-40 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	7:45
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04357

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-55 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	7.53	0.37	mg/Kg	07/12/13	LK	SW6010
SPLP Lead	0.011	0.010	mg/L	07/12/13	EK	SW6010
SPLP Metals Digestion	Completed			07/12/13	D/D	SW846-3005
Percent Solid	92		%	07/11/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/11/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/11/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/11/13	D	EPA 1312
Total Metals Digest	Completed			07/11/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/11/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	53	mg/Kg	07/12/13	MH	CT ETPH/8015
Identification	ND		mg/Kg	07/12/13	MH	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	74		%	07/12/13	MH	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-55 2-5 FT

Phoenix I.D.: BF04357

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	34	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-55 2-5 FT

Phoenix I.D.: BF04357

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	92		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	100		%	07/13/13	H/J	70 - 130 %
% Toluene-d8	96		%	07/13/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	89		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	84		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	101		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04357

Client ID: PSGP-55 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	0:00
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04358

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-2 LOW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/11/13		E160.3
Field Extraction	Completed			07/11/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	25	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-2 LOW

Phoenix I.D.: BF04358

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	30	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	07/13/13	H/J	SW8260
Toluene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	94		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	100		%	07/13/13	H/J	70 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: TB-2 LOW

Phoenix I.D.: BF04358

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	96		%	07/13/13	H/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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 24, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/11/13	0:00
Location Code:	MAGU-DAS	Received by:	SW	07/11/13	14:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04345
Phoenix ID: BF04359

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-2 HIGH

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/11/13		E160.3
Field Extraction	Completed			07/11/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	07/13/13	H/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	07/13/13	H/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	07/13/13	H/J	SW8260
2-Hexanone	ND	1300	ug/Kg	07/13/13	H/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	07/13/13	H/J	SW8260
4-Chlorotoluene	ND	250	ug/Kg	07/13/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-2 HIGH

Phoenix I.D.: BF04359

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	07/13/13	H/J	SW8260
Acetone	ND	5000	ug/Kg	07/13/13	H/J	SW8260
Acrylonitrile	ND	500	ug/Kg	07/13/13	H/J	SW8260
Benzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Bromobenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Bromochloromethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Bromoform	ND	250	ug/Kg	07/13/13	H/J	SW8260
Bromomethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	07/13/13	H/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	07/13/13	H/J	SW8260
Chlorobenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Chloroethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Chloroform	ND	250	ug/Kg	07/13/13	H/J	SW8260
Chloromethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	07/13/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Dibromomethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Ethylbenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
m&p-Xylene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	07/13/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	07/13/13	H/J	SW8260
Methylene chloride	ND	500	ug/Kg	07/13/13	H/J	SW8260
Naphthalene	ND	250	ug/Kg	07/13/13	H/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
o-Xylene	ND	250	ug/Kg	07/13/13	H/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	07/13/13	H/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Styrene	ND	250	ug/Kg	07/13/13	H/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	07/13/13	H/J	SW8260
Toluene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Total Xylenes	ND	250	ug/Kg	07/13/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	07/13/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	07/13/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	07/13/13	H/J	SW8260
Trichloroethene	ND	250	ug/Kg	07/13/13	H/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	07/13/13	H/J	SW8260
Vinyl chloride	ND	250	ug/Kg	07/13/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	07/13/13	H/J	70 - 130 %
% Bromofluorobenzene	98		%	07/13/13	H/J	70 - 130 %
% Dibromofluoromethane	95		%	07/13/13	H/J	70 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: TB-2 HIGH

Phoenix I.D.: BF04359

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	96		%	07/13/13	H/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 24, 2013

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 24, 2013

QA/QC Data

SDG I.D.: GBF04345

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 239629, QC Sample No: BD96605 (BF04345, BF04346, BF04347, BF04348, BF04349, BF04350, BF04351, BF04352, BF04353, BF04354, BF04355, BF04356, BF04357)													
ICP Metals - SPLP Extraction													
Lead	BRL	<0.010	<0.010	NC	91.6	92.0	0.4		<0.010	NC	75 - 125	20	m
QA/QC Batch 239989, QC Sample No: BD99174 (BF04356, BF04357)													
ICP Metals - Soil													
Lead	BRL	436	426	2.30	101	99.6	1.4	436	426	2.3	75 - 125	30	m
QA/QC Batch 239988, QC Sample No: BF04349 (BF04345, BF04346, BF04347, BF04348, BF04349, BF04350, BF04351, BF04352, BF04353, BF04354, BF04355)													
ICP Metals - Soil													
Lead	BRL	4.79	8.84	59.4	103	101	2.0	4.79	8.84	59.4	75 - 125	30	m,r

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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

QA/QC Report

July 24, 2013

QA/QC Data

SDG I.D.: GBF04345

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 239967, QC Sample No: BF04345 (BF04345, BF04346, BF04347, BF04348, BF04349, BF04350, BF04351, BF04352, BF04353, BF04354, BF04355, BF04356, BF04357)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum HC	ND	68	60	12.5	72	65	10.2	60 - 120	30	
% n-Pentacosane	75	71	63	11.9	74	71	4.1	50 - 150	30	
QA/QC Batch 239966, QC Sample No: BF04345 (BF04345, BF04346, BF04347, BF04348, BF04349, BF04350, BF04351, BF04352, BF04353, BF04354, BF04355, BF04356, BF04357)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	95	82	14.7	98	96	2.1	30 - 130	30	
Acenaphthene	ND	96	82	15.7	92	93	1.1	30 - 130	30	
Acenaphthylene	ND	95	79	18.4	83	87	4.7	30 - 130	30	
Anthracene	ND	101	85	17.2	77	81	5.1	30 - 130	30	
Benz(a)anthracene	ND	104	86	18.9	69	85	20.8	30 - 130	30	
Benzo(a)pyrene	ND	93	75	21.4	60	72	18.2	30 - 130	30	
Benzo(b)fluoranthene	ND	99	83	17.6	70	84	18.2	30 - 130	30	
Benzo(ghi)perylene	ND	90	71	23.6	55	71	25.4	30 - 130	30	
Benzo(k)fluoranthene	ND	117	95	20.8	83	84	1.2	30 - 130	30	
Chrysene	ND	82	69	17.2	69	80	14.8	30 - 130	30	
Dibenz(a,h)anthracene	ND	117	86	30.5	82	87	5.9	30 - 130	30	
Fluoranthene	ND	100	82	19.8	4.6	NC	NC	30 - 130	30	m
Fluorene	ND	90	75	18.2	102	104	1.9	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	98	77	24.0	65	78	18.2	30 - 130	30	
Naphthalene	ND	93	79	16.3	98	97	1.0	30 - 130	30	
Phenanthrene	ND	106	90	16.3	NC	NC	NC	30 - 130	30	
Pyrene	ND	97	80	19.2	23	50	74.0	30 - 130	30	m,r
% 2-Fluorobiphenyl	88	91	78	15.4	94	93	1.1	30 - 130	30	
% Nitrobenzene-d5	79	80	71	11.9	74	75	1.3	30 - 130	30	
% Terphenyl-d14	97	101	84	18.4	90	87	3.4	30 - 130	30	

Comment:

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

QA/QC Batch 240484, QC Sample No: BF04350 (BF04350)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	102	105	2.9	102	102	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	95	98	3.1	95	94	1.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	99	100	1.0	102	101	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	100	100	0.0	94	92	2.2	70 - 130	30	
1,1-Dichloroethane	ND	96	99	3.1	99	97	2.0	70 - 130	30	
1,1-Dichloroethene	ND	91	95	4.3	96	95	1.0	70 - 130	30	
1,1-Dichloropropene	ND	93	93	0.0	91	92	1.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	103	102	1.0	73	67	8.6	70 - 130	30	m
1,2,3-Trichloropropane	ND	101	101	0.0	100	100	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	99	98	1.0	77	69	11.0	70 - 130	30	m

QA/QC Data

SDG I.D.: GBF04345

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trimethylbenzene	ND	103	103	0.0	96	96	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	105	109	3.7	104	98	5.9	70 - 130	30	
1,2-Dibromoethane	ND	99	100	1.0	95	93	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	101	103	2.0	95	91	4.3	70 - 130	30	
1,2-Dichloroethane	ND	95	96	1.0	93	90	3.3	70 - 130	30	
1,2-Dichloropropane	ND	95	97	2.1	98	96	2.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	101	102	1.0	97	94	3.1	70 - 130	30	
1,3-Dichlorobenzene	ND	102	102	0.0	93	90	3.3	70 - 130	30	
1,3-Dichloropropane	ND	98	102	4.0	102	99	3.0	70 - 130	30	
1,4-Dichlorobenzene	ND	100	103	3.0	93	92	1.1	70 - 130	30	
2,2-Dichloropropane	ND	91	92	1.1	75	73	2.7	70 - 130	30	
2-Chlorotoluene	ND	104	103	1.0	98	96	2.1	70 - 130	30	
2-Hexanone	ND	84	84	0.0	78	75	3.9	70 - 130	30	
2-Isopropyltoluene	ND	102	104	1.9	95	90	5.4	70 - 130	30	
4-Chlorotoluene	ND	100	100	0.0	96	94	2.1	70 - 130	30	
4-Methyl-2-pentanone	ND	95	97	2.1	90	86	4.5	70 - 130	30	
Acetone	ND	55	55	0.0	46	47	2.2	70 - 130	30	l,m
Acrylonitrile	ND	97	95	2.1	89	86	3.4	70 - 130	30	
Benzene	ND	93	95	2.1	95	93	2.1	70 - 130	30	
Bromobenzene	ND	102	102	0.0	99	99	0.0	70 - 130	30	
Bromochloromethane	ND	94	97	3.1	98	94	4.2	70 - 130	30	
Bromodichloromethane	ND	98	99	1.0	97	96	1.0	70 - 130	30	
Bromoform	ND	107	111	3.7	97	99	2.0	70 - 130	30	
Bromomethane	ND	89	90	1.1	89	94	5.5	70 - 130	30	
Carbon Disulfide	ND	89	91	2.2	93	92	1.1	70 - 130	30	
Carbon tetrachloride	ND	97	97	0.0	97	96	1.0	70 - 130	30	
Chlorobenzene	ND	99	102	3.0	98	97	1.0	70 - 130	30	
Chloroethane	ND	92	95	3.2	101	99	2.0	70 - 130	30	
Chloroform	ND	91	95	4.3	94	91	3.2	70 - 130	30	
Chloromethane	ND	82	86	4.8	93	89	4.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	96	101	5.1	99	96	3.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	95	97	2.1	92	92	0.0	70 - 130	30	
Dibromochloromethane	ND	103	105	1.9	104	104	0.0	70 - 130	30	
Dibromomethane	ND	96	97	1.0	92	91	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	74	75	1.3	85	87	2.3	70 - 130	30	
Ethylbenzene	ND	94	97	3.1	98	96	2.1	70 - 130	30	
Hexachlorobutadiene	ND	99	100	1.0	68	54	23.0	70 - 130	30	m
Isopropylbenzene	ND	103	104	1.0	100	101	1.0	70 - 130	30	
m&p-Xylene	ND	96	97	1.0	93	93	0.0	70 - 130	30	
Methyl ethyl ketone	ND	72	75	4.1	65	64	1.6	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	90	92	2.2	98	94	4.2	70 - 130	30	
Methylene chloride	ND	88	90	2.2	90	89	1.1	70 - 130	30	
Naphthalene	ND	103	105	1.9	87	85	2.3	70 - 130	30	
n-Butylbenzene	ND	102	101	1.0	84	77	8.7	70 - 130	30	
n-Propylbenzene	ND	101	103	2.0	97	94	3.1	70 - 130	30	
o-Xylene	ND	101	104	2.9	100	98	2.0	70 - 130	30	
p-Isopropyltoluene	ND	102	100	2.0	93	86	7.8	70 - 130	30	
sec-Butylbenzene	ND	101	101	0.0	92	87	5.6	70 - 130	30	
Styrene	ND	99	105	5.9	94	93	1.1	70 - 130	30	
tert-Butylbenzene	ND	105	105	0.0	98	94	4.2	70 - 130	30	
Tetrachloroethene	ND	99	98	1.0	94	94	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	95	98	3.1	91	87	4.5	70 - 130	30	
Toluene	ND	95	96	1.0	91	89	2.2	70 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,2-Dichloroethene	ND	93	95	2.1	94	92	2.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	94	96	2.1	90	89	1.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	102	104	1.9	91	91	0.0	70 - 130	30	
Trichloroethene	ND	97	98	1.0	92	91	1.1	70 - 130	30	
Trichlorofluoromethane	ND	93	95	2.1	94	96	2.1	70 - 130	30	
Trichlorotrifluoroethane	ND	91	94	3.2	90	90	0.0	70 - 130	30	
Vinyl chloride	ND	93	96	3.2	87	95	8.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	97	101	101	0.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	97	100	101	1.0	97	97	0.0	70 - 130	30	
% Dibromofluoromethane	94	99	103	4.0	100	100	0.0	70 - 130	30	
% Toluene-d8	96	99	99	0.0	101	100	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 240697, QC Sample No: BF04721 (BF04353 (45X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	108	105	2.8	105	102	2.9	70 - 130	30	
1,1,1-Trichloroethane	ND	93	94	1.1	94	91	3.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	105	102	2.9	108	101	6.7	70 - 130	30	
1,1,2-Trichloroethane	ND	100	100	0.0	91	91	0.0	70 - 130	30	
1,1-Dichloroethane	ND	101	97	4.0	99	95	4.1	70 - 130	30	
1,1-Dichloroethene	ND	98	96	2.1	91	88	3.4	70 - 130	30	
1,1-Dichloropropene	ND	95	95	0.0	94	91	3.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	106	106	0.0	65	65	0.0	70 - 130	30	m
1,2,3-Trichloropropane	ND	107	104	2.8	109	101	7.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	104	102	1.9	67	66	1.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	109	108	0.9	103	96	7.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	115	108	6.3	104	97	7.0	70 - 130	30	
1,2-Dibromoethane	ND	100	99	1.0	89	83	7.0	70 - 130	30	
1,2-Dichlorobenzene	ND	107	106	0.9	95	89	6.5	70 - 130	30	
1,2-Dichloroethane	ND	94	92	2.2	91	86	5.6	70 - 130	30	
1,2-Dichloropropane	ND	100	100	0.0	100	95	5.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	106	106	0.0	112	103	8.4	70 - 130	30	
1,3-Dichlorobenzene	ND	107	106	0.9	96	90	6.5	70 - 130	30	
1,3-Dichloropropane	ND	107	101	5.8	99	96	3.1	70 - 130	30	
1,4-Dichlorobenzene	ND	108	107	0.9	93	89	4.4	70 - 130	30	
2,2-Dichloropropane	ND	96	93	3.2	94	88	6.6	70 - 130	30	
2-Chlorotoluene	ND	110	109	0.9	110	103	6.6	70 - 130	30	
2-Hexanone	ND	95	87	8.8	65	61	6.3	70 - 130	30	m
2-Isopropyltoluene	ND	108	108	0.0	110	105	4.7	70 - 130	30	
4-Chlorotoluene	ND	104	103	1.0	101	92	9.3	70 - 130	30	
4-Methyl-2-pentanone	ND	99	94	5.2	71	76	6.8	70 - 130	30	
Acetone	ND	57	55	3.6	61	53	14.0	70 - 130	30	l,m
Acrylonitrile	ND	102	94	8.2	80	74	7.8	70 - 130	30	
Benzene	ND	96	96	0.0	97	90	7.5	70 - 130	30	
Bromobenzene	ND	108	107	0.9	105	97	7.9	70 - 130	30	
Bromochloromethane	ND	98	94	4.2	104	100	3.9	70 - 130	30	
Bromodichloromethane	ND	99	97	2.0	95	93	2.1	70 - 130	30	
Bromoform	ND	114	106	7.3	93	91	2.2	70 - 130	30	
Bromomethane	ND	101	100	1.0	86	82	4.8	70 - 130	30	
Carbon Disulfide	ND	95	93	2.1	84	80	4.9	70 - 130	30	
Carbon tetrachloride	ND	98	98	0.0	97	91	6.4	70 - 130	30	
Chlorobenzene	ND	108	103	4.7	97	92	5.3	70 - 130	30	

QA/QC Data

SDG I.D.: GBF04345

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chloroethane	ND	99	99	0.0	96	89	7.6	70 - 130	30	
Chloroform	ND	93	93	0.0	103	99	4.0	70 - 130	30	
Chloromethane	ND	94	94	0.0	81	75	7.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	101	98	3.0	93	90	3.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	99	98	1.0	86	84	2.4	70 - 130	30	
Dibromochloromethane	ND	108	105	2.8	98	97	1.0	70 - 130	30	
Dibromomethane	ND	96	94	2.1	91	89	2.2	70 - 130	30	
Dichlorodifluoromethane	ND	96	92	4.3	71	69	2.9	70 - 130	30	m
Ethylbenzene	ND	103	100	3.0	99	94	5.2	70 - 130	30	
Hexachlorobutadiene	ND	104	106	1.9	79	85	7.3	70 - 130	30	
Isopropylbenzene	ND	110	110	0.0	117	107	8.9	70 - 130	30	
m&p-Xylene	ND	101	100	1.0	95	90	5.4	70 - 130	30	
Methyl ethyl ketone	ND	75	71	5.5	59	55	7.0	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	94	92	2.2	98	93	5.2	70 - 130	30	
Methylene chloride	ND	93	89	4.4	>150	>150	NC	70 - 130	30	m
Naphthalene	ND	112	108	3.6	58	61	5.0	70 - 130	30	m
n-Butylbenzene	ND	107	109	1.9	94	92	2.2	70 - 130	30	
n-Propylbenzene	ND	109	109	0.0	111	102	8.5	70 - 130	30	
o-Xylene	ND	110	108	1.8	101	96	5.1	70 - 130	30	
p-Isopropyltoluene	ND	106	107	0.9	97	89	8.6	70 - 130	30	
sec-Butylbenzene	ND	106	107	0.9	110	104	5.6	70 - 130	30	
Styrene	ND	106	103	2.9	86	83	3.6	70 - 130	30	
tert-Butylbenzene	ND	111	110	0.9	115	108	6.3	70 - 130	30	
Tetrachloroethene	ND	103	101	2.0	103	97	6.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	99	92	7.3	86	85	1.2	70 - 130	30	
Toluene	ND	96	96	0.0	95	90	5.4	70 - 130	30	
trans-1,2-Dichloroethene	ND	98	97	1.0	90	86	4.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	96	96	0.0	84	81	3.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	111	107	3.7	81	75	7.7	70 - 130	30	
Trichloroethene	ND	99	100	1.0	96	90	6.5	70 - 130	30	
Trichlorofluoromethane	ND	99	97	2.0	93	88	5.5	70 - 130	30	
Trichlorotrifluoroethane	ND	97	95	2.1	93	88	5.5	70 - 130	30	
Vinyl chloride	ND	107	105	1.9	86	80	7.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	97	101	100	1.0	101	99	2.0	70 - 130	30	
% Bromofluorobenzene	96	99	99	0.0	94	97	3.1	70 - 130	30	
% Dibromofluoromethane	98	103	101	2.0	99	98	1.0	70 - 130	30	
% Toluene-d8	97	99	101	2.0	100	100	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 240489, QC Sample No: BF04791 (BF04345, BF04346, BF04348, BF04351, BF04352, BF04354, BF04355, BF04356, BF04357, BF04358, BF04359 (50X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	105	107	1.9	105	103	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	94	95	1.1	96	98	2.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	104	106	1.9	101	102	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	99	101	2.0	92	93	1.1	70 - 130	30	
1,1-Dichloroethane	ND	97	98	1.0	99	99	0.0	70 - 130	30	
1,1-Dichloroethene	ND	99	100	1.0	97	92	5.3	70 - 130	30	
1,1-Dichloropropene	ND	96	98	2.1	98	87	11.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	115	118	2.6	96	88	8.7	70 - 130	30	
1,2,3-Trichloropropane	ND	106	108	1.9	103	99	4.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	116	115	0.9	96	89	7.6	70 - 130	30	

QA/QC Data

SDG I.D.: GBF04345

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trimethylbenzene	ND	113	115	1.8	99	93	6.3	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	113	113	0.0	103	100	3.0	70 - 130	30	
1,2-Dibromoethane	ND	98	100	2.0	96	94	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	111	113	1.8	104	96	8.0	70 - 130	30	
1,2-Dichloroethane	ND	94	95	1.1	91	91	0.0	70 - 130	30	
1,2-Dichloropropane	ND	98	100	2.0	99	98	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	110	111	0.9	103	97	6.0	70 - 130	30	
1,3-Dichlorobenzene	ND	113	113	0.0	105	95	10.0	70 - 130	30	
1,3-Dichloropropane	ND	104	104	0.0	101	101	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	115	114	0.9	104	96	8.0	70 - 130	30	
2,2-Dichloropropane	ND	97	98	1.0	88	78	12.0	70 - 130	30	
2-Chlorotoluene	ND	114	115	0.9	108	100	7.7	70 - 130	30	
2-Hexanone	ND	91	89	2.2	73	68	7.1	70 - 130	30	m
2-Isopropyltoluene	ND	111	113	1.8	107	104	2.8	70 - 130	30	
4-Chlorotoluene	ND	110	112	1.8	106	95	10.9	70 - 130	30	
4-Methyl-2-pentanone	ND	93	96	3.2	86	84	2.4	70 - 130	30	
Acetone	ND	54	54	0.0	56	48	15.4	70 - 130	30	l,m
Acrylonitrile	ND	96	93	3.2	87	84	3.5	70 - 130	30	
Benzene	ND	96	97	1.0	98	96	2.1	70 - 130	30	
Bromobenzene	ND	109	111	1.8	107	102	4.8	70 - 130	30	
Bromochloromethane	ND	94	96	2.1	95	96	1.0	70 - 130	30	
Bromodichloromethane	ND	97	99	2.0	99	98	1.0	70 - 130	30	
Bromoform	ND	109	115	5.4	98	100	2.0	70 - 130	30	
Bromomethane	ND	99	103	4.0	93	92	1.1	70 - 130	30	
Carbon Disulfide	ND	97	98	1.0	91	83	9.2	70 - 130	30	
Carbon tetrachloride	ND	99	101	2.0	101	97	4.0	70 - 130	30	
Chlorobenzene	ND	108	107	0.9	104	97	7.0	70 - 130	30	
Chloroethane	ND	100	103	3.0	96	96	0.0	70 - 130	30	
Chloroform	ND	91	93	2.2	94	94	0.0	70 - 130	30	
Chloromethane	ND	98	98	0.0	85	85	0.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	98	100	2.0	96	97	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	99	101	2.0	96	93	3.2	70 - 130	30	
Dibromochloromethane	ND	107	109	1.9	104	103	1.0	70 - 130	30	
Dibromomethane	ND	95	97	2.1	94	95	1.1	70 - 130	30	
Dichlorodifluoromethane	ND	107	107	0.0	76	64	17.1	70 - 130	30	m
Ethylbenzene	ND	103	103	0.0	104	94	10.1	70 - 130	30	
Hexachlorobutadiene	ND	113	114	0.9	102	94	8.2	70 - 130	30	
Isopropylbenzene	ND	113	115	1.8	109	101	7.6	70 - 130	30	
m&p-Xylene	ND	104	104	0.0	100	89	11.6	70 - 130	30	
Methyl ethyl ketone	ND	73	76	4.0	68	63	7.6	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	91	92	1.1	94	92	2.2	70 - 130	30	
Methylene chloride	ND	90	92	2.2	102	102	0.0	70 - 130	30	
Naphthalene	ND	113	114	0.9	75	79	5.2	70 - 130	30	
n-Butylbenzene	ND	119	116	2.6	101	97	4.0	70 - 130	30	
n-Propylbenzene	ND	115	116	0.9	106	95	10.9	70 - 130	30	
o-Xylene	ND	109	110	0.9	103	98	5.0	70 - 130	30	
p-Isopropyltoluene	ND	114	114	0.0	108	99	8.7	70 - 130	30	
sec-Butylbenzene	ND	111	112	0.9	106	101	4.8	70 - 130	30	
Styrene	ND	109	106	2.8	102	91	11.4	70 - 130	30	
tert-Butylbenzene	ND	112	115	2.6	109	107	1.9	70 - 130	30	
Tetrachloroethene	ND	107	106	0.9	106	87	19.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	91	94	3.2	88	85	3.5	70 - 130	30	
Toluene	ND	96	98	2.1	98	93	5.2	70 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,2-Dichloroethene	ND	99	98	1.0	96	88	8.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	97	98	1.0	93	90	3.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	113	115	1.8	95	94	1.1	70 - 130	30	
Trichloroethene	ND	101	101	0.0	98	90	8.5	70 - 130	30	
Trichlorofluoromethane	ND	100	102	2.0	96	84	13.3	70 - 130	30	
Trichlorotrifluoroethane	ND	99	100	1.0	96	78	20.7	70 - 130	30	
Vinyl chloride	ND	107	108	0.9	89	88	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	101	102	1.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	97	98	98	0.0	98	98	0.0	70 - 130	30	
% Dibromofluoromethane	97	104	100	3.9	101	98	3.0	70 - 130	30	
% Toluene-d8	94	99	99	0.0	101	99	2.0	70 - 130	30	

Comment:

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

QA/QC Batch 240825, QC Sample No: BF05234 (BF04347)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	107	106	0.9	100	102	2.0	70 - 130	30	
1,1,1-Trichloroethane	ND	103	105	1.9	99	102	3.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	96	99	3.1	90	90	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	104	105	1.0	97	98	1.0	70 - 130	30	
1,1-Dichloroethane	ND	100	102	2.0	98	99	1.0	70 - 130	30	
1,1-Dichloroethene	ND	112	88	24.0	70	71	1.4	70 - 130	30	
1,1-Dichloropropene	ND	103	101	2.0	102	106	3.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	103	100	3.0	101	101	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	98	102	4.0	89	92	3.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	101	97	4.0	103	99	4.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	104	102	1.9	100	100	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	106	110	3.7	93	92	1.1	70 - 130	30	
1,2-Dibromoethane	ND	103	103	0.0	97	98	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	101	101	0.0	98	97	1.0	70 - 130	30	
1,2-Dichloroethane	ND	101	101	0.0	99	103	4.0	70 - 130	30	
1,2-Dichloropropane	ND	99	100	1.0	96	98	2.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	102	100	2.0	100	101	1.0	70 - 130	30	
1,3-Dichlorobenzene	ND	102	101	1.0	99	98	1.0	70 - 130	30	
1,3-Dichloropropane	ND	101	99	2.0	95	97	2.1	70 - 130	30	
1,4-Dichlorobenzene	ND	102	100	2.0	99	97	2.0	70 - 130	30	
2,2-Dichloropropane	ND	105	105	0.0	101	100	1.0	70 - 130	30	
2-Chlorotoluene	ND	104	103	1.0	99	99	0.0	70 - 130	30	
2-Hexanone	ND	81	81	0.0	66	67	1.5	70 - 130	30	m
2-Isopropyltoluene	ND	104	103	1.0	101	102	1.0	70 - 130	30	
4-Chlorotoluene	ND	100	98	2.0	99	97	2.0	70 - 130	30	
4-Methyl-2-pentanone	ND	98	101	3.0	89	89	0.0	70 - 130	30	
Acetone	ND	60	62	3.3	53	48	9.9	70 - 130	30	l,m
Acrylonitrile	ND	96	96	0.0	93	89	4.4	70 - 130	30	
Benzene	ND	100	101	1.0	99	100	1.0	70 - 130	30	
Bromobenzene	ND	101	103	2.0	98	98	0.0	70 - 130	30	
Bromochloromethane	ND	99	102	3.0	101	99	2.0	70 - 130	30	
Bromodichloromethane	ND	104	102	1.9	98	101	3.0	70 - 130	30	
Bromoform	ND	110	110	0.0	95	97	2.1	70 - 130	30	
Bromomethane	ND	101	108	6.7	68	71	4.3	70 - 130	30	m
Carbon Disulfide	ND	102	99	3.0	65	63	3.1	70 - 130	30	m
Carbon tetrachloride	ND	107	107	0.0	98	101	3.0	70 - 130	30	
Chlorobenzene	ND	103	102	1.0	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBF04345

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chloroethane	ND	92	94	2.2	<40	<40	NC	70 - 130	30	m
Chloroform	ND	100	101	1.0	99	99	0.0	70 - 130	30	
Chloromethane	ND	99	98	1.0	96	93	3.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	103	103	0.0	99	98	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	103	102	1.0	99	98	1.0	70 - 130	30	
Dibromochloromethane	ND	106	103	2.9	96	99	3.1	70 - 130	30	
Dibromomethane	ND	102	102	0.0	95	98	3.1	70 - 130	30	
Dichlorodifluoromethane	ND	115	112	2.6	103	106	2.9	70 - 130	30	
Ethylbenzene	ND	101	99	2.0	100	103	3.0	70 - 130	30	
Hexachlorobutadiene	ND	108	90	18.2	109	109	0.0	70 - 130	30	
Isopropylbenzene	ND	105	105	0.0	100	101	1.0	70 - 130	30	
m&p-Xylene	ND	102	101	1.0	101	102	1.0	70 - 130	30	
Methyl ethyl ketone	ND	73	73	0.0	68	64	6.1	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	98	97	1.0	99	101	2.0	70 - 130	30	
Methylene chloride	ND	88	90	2.2	87	88	1.1	70 - 130	30	
Naphthalene	ND	104	106	1.9	99	99	0.0	70 - 130	30	
n-Butylbenzene	ND	105	95	10.0	105	103	1.9	70 - 130	30	
n-Propylbenzene	ND	104	103	1.0	100	100	0.0	70 - 130	30	
o-Xylene	ND	107	106	0.9	101	102	1.0	70 - 130	30	
p-Isopropyltoluene	ND	105	99	5.9	103	103	0.0	70 - 130	30	
sec-Butylbenzene	ND	103	99	4.0	101	102	1.0	70 - 130	30	
Styrene	ND	104	103	1.0	100	101	1.0	70 - 130	30	
tert-Butylbenzene	ND	107	106	0.9	101	102	1.0	70 - 130	30	
Tetrachloroethene	ND	104	99	4.9	106	107	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	95	98	3.1	90	89	1.1	70 - 130	30	
Toluene	ND	100	102	2.0	100	103	3.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	102	102	0.0	99	97	2.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	104	104	0.0	100	100	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	107	111	3.7	94	87	7.7	70 - 130	30	
Trichloroethene	ND	105	104	1.0	101	102	1.0	70 - 130	30	
Trichlorofluoromethane	ND	108	107	0.9	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	109	98	10.6	85	81	4.8	70 - 130	30	
Vinyl chloride	ND	110	111	0.9	111	110	0.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	100	102	2.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	99	101	101	0.0	102	102	0.0	70 - 130	30	
% Dibromofluoromethane	99	97	102	5.0	100	98	2.0	70 - 130	30	
% Toluene-d8	100	98	100	2.0	101	101	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 240401, QC Sample No: BF05517 (BF04349)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	107	107	0.0	97	99	2.0	70 - 130	30	
1,1,1-Trichloroethane	ND	106	107	0.9	98	96	2.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	100	101	1.0	<40	52	NC	70 - 130	30	m
1,1,2-Trichloroethane	ND	105	106	0.9	97	95	2.1	70 - 130	30	
1,1-Dichloroethane	ND	105	106	0.9	99	99	0.0	70 - 130	30	
1,1-Dichloroethene	ND	120	107	11.5	112	109	2.7	70 - 130	30	
1,1-Dichloropropene	ND	104	107	2.8	99	95	4.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	99	100	1.0	63	55	13.6	70 - 130	30	m
1,2,3-Trichloropropane	ND	99	100	1.0	100	99	1.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	95	99	4.1	67	57	16.1	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	104	108	3.8	69	41	50.9	70 - 130	30	m,r

QA/QC Data

SDG I.D.: GBF04345

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromo-3-chloropropane	ND	105	105	0.0	103	100	3.0	70 - 130	30	
1,2-Dibromoethane	ND	104	102	1.9	97	95	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	100	104	3.9	81	70	14.6	70 - 130	30	
1,2-Dichloroethane	ND	101	101	0.0	95	94	1.1	70 - 130	30	
1,2-Dichloropropane	ND	104	104	0.0	101	99	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	103	108	4.7	78	62	22.9	70 - 130	30	m
1,3-Dichlorobenzene	ND	101	106	4.8	92	84	9.1	70 - 130	30	
1,3-Dichloropropane	ND	103	102	1.0	98	98	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	100	104	3.9	93	84	10.2	70 - 130	30	
2,2-Dichloropropane	ND	106	106	0.0	89	92	3.3	70 - 130	30	
2-Chlorotoluene	ND	105	109	3.7	86	74	15.0	70 - 130	30	
2-Hexanone	ND	84	78	7.4	90	96	6.5	70 - 130	30	
2-Isopropyltoluene	ND	106	109	2.8	77	71	8.1	70 - 130	30	
4-Chlorotoluene	ND	100	104	3.9	91	82	10.4	70 - 130	30	
4-Methyl-2-pentanone	ND	102	100	2.0	95	91	4.3	70 - 130	30	
Acetone	ND	64	57	11.6	65	97	39.5	70 - 130	30	l,m,r
Acrylonitrile	ND	104	98	5.9	92	89	3.3	70 - 130	30	
Benzene	ND	105	105	0.0	101	100	1.0	70 - 130	30	
Bromobenzene	ND	101	105	3.9	95	91	4.3	70 - 130	30	
Bromochloromethane	ND	104	103	1.0	100	97	3.0	70 - 130	30	
Bromodichloromethane	ND	103	103	0.0	100	98	2.0	70 - 130	30	
Bromoform	ND	108	107	0.9	99	99	0.0	70 - 130	30	
Bromomethane	ND	109	112	2.7	84	100	17.4	70 - 130	30	
Carbon Disulfide	ND	110	109	0.9	93	87	6.7	70 - 130	30	
Carbon tetrachloride	ND	107	109	1.9	98	95	3.1	70 - 130	30	
Chlorobenzene	ND	105	105	0.0	94	92	2.2	70 - 130	30	
Chloroethane	ND	96	99	3.1	93	92	1.1	70 - 130	30	
Chloroform	ND	103	103	0.0	98	96	2.1	70 - 130	30	
Chloromethane	ND	112	109	2.7	100	99	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	108	108	0.0	98	97	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	103	104	1.0	98	97	1.0	70 - 130	30	
Dibromochloromethane	ND	104	104	0.0	100	99	1.0	70 - 130	30	
Dibromomethane	ND	102	101	1.0	97	94	3.1	70 - 130	30	
Dichlorodifluoromethane	ND	125	128	2.4	97	91	6.4	70 - 130	30	
Ethylbenzene	ND	104	105	1.0	89	84	5.8	70 - 130	30	
Hexachlorobutadiene	ND	97	106	8.9	<40	<40	NC	70 - 130	30	m
Isopropylbenzene	ND	108	113	4.5	88	78	12.0	70 - 130	30	
m&p-Xylene	ND	105	107	1.9	79	72	9.3	70 - 130	30	
Methyl ethyl ketone	ND	76	70	8.2	97	95	2.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	98	98	0.0	102	99	3.0	70 - 130	30	
Methylene chloride	ND	93	93	0.0	90	88	2.2	70 - 130	30	
Naphthalene	ND	103	104	1.0	<40	<40	NC	70 - 130	30	m
n-Butylbenzene	ND	99	111	11.4	56	<40	NC	70 - 130	30	m
n-Propylbenzene	ND	107	111	3.7	82	69	17.2	70 - 130	30	m
o-Xylene	ND	110	110	0.0	85	81	4.8	70 - 130	30	
p-Isopropyltoluene	ND	104	110	5.6	71	63	11.9	70 - 130	30	m
sec-Butylbenzene	ND	104	110	5.6	66	55	18.2	70 - 130	30	m
Styrene	ND	106	106	0.0	71	65	8.8	70 - 130	30	m
tert-Butylbenzene	ND	110	112	1.8	80	75	6.5	70 - 130	30	
Tetrachloroethene	ND	104	108	3.8	96	90	6.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	102	99	3.0	91	88	3.4	70 - 130	30	
Toluene	ND	104	107	2.8	95	92	3.2	70 - 130	30	
trans-1,2-Dichloroethene	ND	107	108	0.9	95	95	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBF04345

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,3-Dichloropropene	ND	102	102	0.0	96	94	2.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	107	109	1.9	98	100	2.0	70 - 130	30	
Trichloroethene	ND	108	109	0.9	>150	130	NC	70 - 130	30	m
Trichlorofluoromethane	ND	109	113	3.6	97	92	5.3	70 - 130	30	
Trichlorotrifluoroethane	ND	109	111	1.8	98	92	6.3	70 - 130	30	
Vinyl chloride	ND	118	122	3.3	99	98	1.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	99	100	1.0	102	98	4.0	70 - 130	30	
% Bromofluorobenzene	98	100	99	1.0	98	98	0.0	70 - 130	30	
% Dibromofluoromethane	99	99	101	2.0	99	100	1.0	70 - 130	30	
% Toluene-d8	102	99	100	1.0	101	100	1.0	70 - 130	30	

Comment:

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

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
July 24, 2013

Requested Criteria: GBM, RC

State: CT

Sample Criteria Exceedences Report

GBF04345 - MAGU-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF04345	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1800	250	1000	1000	ug/Kg
BF04345	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1800	250	1000	1000	ug/Kg
BF04345	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1700	250	1000	1000	ug/Kg
BF04345	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2100	250	1000	1000	ug/Kg
BF04345	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2100	250	1000	1000	ug/Kg
BF04345	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1500	250	1000	1000	ug/Kg
BF04345	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1500	250	1000	1000	ug/Kg
BF04346	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	14000	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	14000	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	14000	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	15000	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	15000	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	5600	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	9700	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	9700	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	5000	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	5000	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF04346	$8100SMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	ND	2500	1000	1000	ug/Kg
BF04346	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1700	270	500	500	mg/Kg
BF04349	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2200	240	1000	1000	ug/Kg
BF04349	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2200	240	1000	1000	ug/Kg
BF04349	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2100	240	1000	1000	ug/Kg
BF04349	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2200	240	1000	1000	ug/Kg
BF04349	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2200	240	1000	1000	ug/Kg
BF04349	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1500	240	1000	1000	ug/Kg
BF04349	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1500	240	1000	1000	ug/Kg
BF04351	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	4200	250	1000	1000	ug/Kg
BF04351	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	4200	250	1000	1000	ug/Kg
BF04351	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	3700	250	1000	1000	ug/Kg
BF04351	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	4700	250	1000	1000	ug/Kg
BF04351	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	4700	250	1000	1000	ug/Kg
BF04351	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1400	250	1000	1000	ug/Kg
BF04351	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2800	250	1000	1000	ug/Kg
BF04351	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2800	250	1000	1000	ug/Kg
BF04351	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1300	250	1000	1000	ug/Kg
BF04351	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1300	250	1000	1000	ug/Kg
BF04353	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	410	400	400	ug/Kg
BF04353	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/k	ND	410	320	320	ug/Kg

Sample Criteria Exceedences Report

GBF04345 - MAGU-DAS

Requested Criteria: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF04353	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	410	100	100	ug/Kg
BF04353	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	410	200	200	ug/Kg
BF04353	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	410	200	200	ug/Kg
BF04353	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	410	110	110	ug/Kg
BF04353	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	410	100	100	ug/Kg
BF04353	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/k	ND	410	7	7	ug/Kg
BF04353	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	240	100	100	ug/Kg
BF04353	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	410	200	200	ug/Kg
BF04353	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	240	100	100	ug/Kg
BF04353	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GB PMC (mg/kg)	3100	810	2500	2500	mg/Kg
BF04353	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	3100	810	500	500	mg/Kg
BF04353	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	520	5.0	400	400	mg/Kg
BF04353	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.201	0.010	0.15	0.15	mg/L
BF04354	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1300	320	1000	1000	ug/Kg
BF04354	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1300	320	1000	1000	ug/Kg
BF04354	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	2040	42	400	400	mg/Kg
BF04354	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	1.68	0.010	0.15	0.15	mg/L

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGU-DAS

Project Location: MIDDLETOWN SEWER PROJE **Project Number:**

Laboratory Sample ID(s): BF04345, BF04346, BF04347, BF04348, BF04349, BF04350, BF04351, BF04352, BF04353, BF04354, BF04355, BF04356, BF04357, BF04358, BF04359

Sampling Date(s): 7/11/2013

RCP Methods Used:

☑ 1311/1312 ☑ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☐ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

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.	EPH and VPH 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: SVOA Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Wednesday, July 24, 2013

Printed Name: Maryam Taylor

Position: Project Manager

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

Not all constituents met requested criteria due to the presence of target and non target compounds causing a necessary dilution.

ETPH Narration

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

Instrument: Au-fid1 07/12/13-1 (BF04345, BF04347, BF04348, BF04349, BF04350, BF04351, BF04352, BF04355, BF04356, BF04357)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

Printed Name Michael Hahn
Position: Chemist
Date: 7/12/2013

Instrument: Au-fid84 07/16/13-1 (BF04353)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

Printed Name Jeff Bucko
Position: Chemist
Date: 7/16/2013

Instrument: Au-xl1 07/15/13-2 (BF04353, BF04354)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 7/15/2013

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

Instrument: Au-xl2 07/15/13-1 (BF04346)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

Printed Name Jeff Bucko
Position: Chemist
Date: 7/15/2013

QC (Site Specific)

---------- Sample No: BF04345, QA/QC Batch: 239967 ----------

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.

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.

ICP Narration

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

Instrument: Arcos 07/12/13-1 (BF04345, BF04346, BF04347, BF04348, BF04349, BF04350, BF04351, BF04352, BF04353, BF04354, BF04355, BF04356, BF04357)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/12/2013

Instrument: Arcos 07/13/13-1 (BF04349, BF04353, BF04354)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/13/2013

QC (Site Specific)

---------- Sample No: BF04349, QA/QC Batch: 239988 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: Lead(4.79%)

All MSD recoveries were within 75 - 125 with the following exceptions: Lead(8.84%)

All MS/MSD RPDs were less than 30% with the following exceptions: Lead(59.4%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BD96605, QA/QC Batch: 239629 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD99174, QA/QC Batch: 239989 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PAH Narration

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

Instrument: Chem09 07/11/13-1 (BF04354)

The DDT breakdown and benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM09/BN_0701):

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

85% of target compounds met criteria.
The following compounds had %RSDs >20%: 2-Nitrophenol (24%), Acetophenone (25%), Nitrobenzene (21%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM09/0711_04-BN_0701):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/11/2013

Instrument: Chem09 07/12/13-1 (BF04345, BF04347, BF04348)

The DDT breakdown and benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM09/BN_0701):
85% of target compounds met criteria.
The following compounds had %RSDs >20%: 2-Nitrophenol (24%), Acetophenone (25%), Nitrobenzene (21%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM09/0712_05-BN_0701):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/12/2013

Instrument: Chem12 07/12/13-1 (BF04345, BF04346, BF04349, BF04350, BF04351, BF04352, BF04353, BF04354, BF04355, BF04356, BF04357)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM12/sv_0703):
93% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (29%), 3-Nitroaniline (75%), 4-Chloroaniline (43%), Aniline (48%), Atrazine (37%), Benzaldehyde (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

The following compounds did not meet recommended response factors: no PAHs

Printed Name Keith Aloisa
Position: Chemist
Date: 7/12/2013

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

Instrument: Chem12 07/15/13-1 (BF04351)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM12/BN_0703):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM12/0714_02-BN_0703):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/15/2013

QC (Site Specific)

---------- Sample No: BF04345, QA/QC Batch: 239966 ----------

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: Fluoranthene(4.6%), Pyrene(23%)

All MSD recoveries were within 30 - 130 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: Pyrene(74.0%)

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.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

VOA Narration

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

QC Batch 240401 (Samples: BF04349): -----

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

QC Batch 240484 (Samples: BF04350): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Methyl ethyl ketone)

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

QC Batch 240489 (Samples: BF04345, BF04346, BF04348, BF04351, BF04352, BF04354, BF04355, BF04356, BF04357, BF04358, BF04359): -----

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

QC Batch 240697 (Samples: BF04353): -----

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

QC Batch 240825 (Samples: BF04347): -----

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

Instrument: Chem15 07/13/13-1 (BF04349)

Initial Calibration Verification (CHEM15/RCPS_0713):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Chloroethane (25%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification #1 (CHEM15/0713B13-RCPS_0713):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Continuing Calibration Verification #2 (CHEM15/0713B14-RCPS_0713):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

Printed Name Johanna Harrington
Position: Chemist
Date: 7/13/2013

Instrument: Chem15 07/15/13-1 (BF04347)

Initial Calibration Verification (CHEM15/RCPS_0713):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Chloroethane (25%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification #1 (CHEM15/0715B03-RCPS_0713):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Continuing Calibration Verification #2 (CHEM15/0715B04-RCPS_0713):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Caleb Githinji
Position: Chemist
Date: 7/15/2013

Instrument: Chem18 07/12/13-1 (BF04350)

Initial Calibration Verification (CHEM18/RCPS_0712N2):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0712M23-RCPS_0712N2):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Caleb Githinji
Position: Chemist
Date: 7/12/2013

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

Instrument: Chem18 07/13/13-1 (BF04345, BF04346, BF04348, BF04351, BF04352, BF04354, BF04355, BF04356, BF04357, BF04358, BF04359)

Initial Calibration Verification (CHEM18/RCPS_0712N2):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0713M02-RCPS_0712N2):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Caleb Githinji
Position: Chemist
Date: 7/13/2013

Instrument: Chem18 07/15/13-2 (BF04353)

Initial Calibration Verification (CHEM18/RCPS_0712N2):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0715M36-RCPS_0712N2):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Ryan Magee
Position: Chemist
Date: 7/15/2013

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

QC (Site Specific)

---------- Sample No: BF04350, QA/QC Batch: 240484 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(55%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(55%)

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(46%), Hexachlorobutadiene(68%), Methyl ethyl ketone(65%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(67%), 1,2,4-Trichlorobenzene(69%), Acetone(47%), Hexachlorobutadiene(54%), Methyl ethyl ketone(64%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BF04721, QA/QC Batch: 240697 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(57%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(55%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BF04791, QA/QC Batch: 240489 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(54%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(54%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BF05234, QA/QC Batch: 240825 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(60%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(62%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BF05517, QA/QC Batch: 240401 ----------

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

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(57%)

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

RCP Certification Report

July 24, 2013

SDG I.D.: GBF04345

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

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

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 6.0 °C Pg 1 of 2

Contact Options:
[ ] Fax:
[X] Phone: 8605633158
[X] Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire Inc.
Address: 2080 Silas Deane Hwy.
Rocky Hill CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 7-11-13

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	PAHs 8270	CT ETPH	Total Lead	SPLP Lead	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
04345	PSGP-43 1'-5'	S	7-11-13	9:05am	X	X	X	X	X								1/2	1	
04346	PSGP-43 10'-14'			9:15am															
04347	PSGP-43 14'-20'			9:25am															
04348	PSGP-45 1'-5'			11:20am															
04349	PSGP-45 15'-20'			11:45am															
04350	PSGP-46 1'-5'			12:55pm															
04351	PSGP-46 15'-20'			1:30pm															
04352	PSGP-54 2'-5'			5:45am															
04353	PSGP-54 6'-10'			5:55am															
04354	PSGP-54 14'-20'			6:00am															
04355	PSGP-54 21'-25'			6:05am															
04356	PSGP-54 35'-40'			6:40am															

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	7/11/13	14:34

Comments, Special Requirements or Regulations:

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

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

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[X] 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 ☒ N ☐

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp °C Pg 2 of 2

Data Delivery:
☐ Fax #:
☒ Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire Inc.
Address: 2080 Silas Deane Hwy.
Rocky Hill CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:
Phone #: 8605633158
Fax #:

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 7-11-13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs-8260	PAHs-8270	CT EPH	Total LEAD	SPLP LEAD								Soil VOA Vials [1] methanol [2] H2O	GL Soil container (9) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
04357	PSGP-55 2-5'	S	7-11-13	7:45am	X	X	X	X	X								1/2	1								
04358	TB-2 Low	↓	↓	-	X												2									
04359	TB-2 High	↓	↓	-	X												1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	7/11/13	14:34

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 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

PHOENIX
Environmental Laboratories, Inc.

Friday, July 19, 2013

Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: MIDDLETOWN SEWER PROJECT
Sample ID#s: BF05840 - BF05848

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/15/13	5:10
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05840

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-59 1-4 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	07/16/13	EK	SW6010
Arsenic	2.4	0.8	mg/Kg	07/16/13	EK	SW6010
Barium	90.3	0.39	mg/Kg	07/16/13	EK	SW6010
Cadmium	0.45	0.39	mg/Kg	07/16/13	EK	SW6010
Chromium	11.4	0.39	mg/Kg	07/16/13	EK	SW6010
Mercury	0.70	0.08	mg/Kg	07/17/13	RS	SW-7471
Lead	259	3.9	mg/Kg	07/16/13	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	07/16/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Arsenic	0.007	0.004	mg/L	07/16/13	EK	SW6010
SPLP Barium	0.116	0.010	mg/L	07/16/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/16/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Mercury	0.0005	0.0004	mg/L	07/16/13	RS	1312/SW7470
SPLP Lead	0.233	0.010	mg/L	07/16/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/16/13	EK	SW6010
SPLP Metals Digestion	Completed			07/16/13	X/X	SW846-3005
Percent Solid	86		%	07/15/13	JL	E160.3
Soil Extraction for PCB	Completed			07/15/13	BB/V	SW3545
Soil Extraction SVOA PAH	Completed			07/15/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/15/13	BS/F	3545
Mercury Digestion	Completed			07/17/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/16/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/15/13	X	EPA 1312
Total Metals Digest	Completed			07/15/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/15/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	470	280	mg/Kg	07/16/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-59 1-4 FT

Phoenix I.D.: BF05840

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	07/16/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	Diluted Out		%	07/16/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	07/16/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	07/16/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	07/16/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	07/16/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	07/16/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	07/16/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	07/16/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	07/16/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	07/16/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	51		%	07/16/13	AW	30 - 150 %
% TCMX	45		%	07/16/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,1,1-Trichloroethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	07/15/13	H/J	SW8260
1,1,2-Trichloroethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloropropene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichloropropane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromoethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichlorobenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloroethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloropropane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichlorobenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichloropropane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
1,4-Dichlorobenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
2,2-Dichloropropane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
2-Chlorotoluene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
2-Hexanone	ND	32	ug/Kg	07/15/13	H/J	SW8260
2-Isopropyltoluene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
4-Chlorotoluene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	07/15/13	H/J	SW8260
Acetone	ND	39	ug/Kg	07/15/13	H/J	SW8260
Acrylonitrile	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Benzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Bromobenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Bromochloromethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-59 1-4 FT

Phoenix I.D.: BF05840

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Bromoform	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Bromomethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Carbon Disulfide	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Carbon tetrachloride	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Chlorobenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Chloroethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Chloroform	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Chloromethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Dibromochloromethane	ND	3.9	ug/Kg	07/15/13	H/J	SW8260
Dibromomethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Dichlorodifluoromethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Ethylbenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Hexachlorobutadiene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Isopropylbenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
m&p-Xylene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Methyl Ethyl Ketone	ND	39	ug/Kg	07/15/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	07/15/13	H/J	SW8260
Methylene chloride	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Naphthalene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
n-Butylbenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
n-Propylbenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
o-Xylene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
p-Isopropyltoluene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
sec-Butylbenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Styrene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
tert-Butylbenzene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Tetrachloroethene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	07/15/13	H/J	SW8260
Toluene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Total Xylenes	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	07/15/13	H/J	SW8260
Trichloroethene	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Trichlorofluoromethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Trichlorotrifluoroethane	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
Vinyl chloride	ND	6.5	ug/Kg	07/15/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	07/15/13	H/J	70 - 130 %
% Bromofluorobenzene	80		%	07/15/13	H/J	70 - 130 %
% Dibromofluoromethane	100		%	07/15/13	H/J	70 - 130 %
% Toluene-d8	91		%	07/15/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthene	ND	260	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthylene	1200	260	ug/Kg	07/15/13	KCA	SW 8270

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: PSGP-59 1-4 FT

Phoenix I.D.: BF05840

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	590	260	ug/Kg	07/15/13	KCA	SW 8270
Benz(a)anthracene	3400	260	ug/Kg	07/15/13	KCA	SW 8270
Benzo(a)pyrene	3800	260	ug/Kg	07/15/13	KCA	SW 8270
Benzo(b)fluoranthene	4500	260	ug/Kg	07/15/13	KCA	SW 8270
Benzo(ghi)perylene	1800	260	ug/Kg	07/15/13	KCA	SW 8270
Benzo(k)fluoranthene	1000	260	ug/Kg	07/15/13	KCA	SW 8270
Chrysene	4300	260	ug/Kg	07/15/13	KCA	SW 8270
Dibenz(a,h)anthracene	570	260	ug/Kg	07/15/13	KCA	SW 8270
Fluoranthene	6100	260	ug/Kg	07/15/13	KCA	SW 8270
Fluorene	ND	260	ug/Kg	07/15/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	1500	260	ug/Kg	07/15/13	KCA	SW 8270
Naphthalene	310	260	ug/Kg	07/15/13	KCA	SW 8270
Phenanthrene	3100	260	ug/Kg	07/15/13	KCA	SW 8270
Pyrene	8100	260	ug/Kg	07/15/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	94		%	07/15/13	KCA	30 - 130 %
% Nitrobenzene-d5	86		%	07/15/13	KCA	30 - 130 %
% Terphenyl-d14	97		%	07/15/13	KCA	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/15/13	5:55
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05841

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-60 5-10 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	07/16/13	EK	SW6010
Arsenic	2.5	0.9	mg/Kg	07/16/13	EK	SW6010
Barium	65.4	0.43	mg/Kg	07/16/13	EK	SW6010
Cadmium	< 0.43	0.43	mg/Kg	07/16/13	EK	SW6010
Chromium	13.4	0.43	mg/Kg	07/16/13	EK	SW6010
Mercury	0.10	0.07	mg/Kg	07/17/13	RS	SW-7471
Lead	249	4.3	mg/Kg	07/16/13	EK	SW6010
Selenium	< 1.7	1.7	mg/Kg	07/16/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	07/16/13	EK	SW6010
SPLP Barium	0.034	0.010	mg/L	07/16/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/16/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	07/16/13	RS	1312/SW7470
SPLP Lead	0.020	0.010	mg/L	07/16/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/16/13	EK	SW6010
SPLP Metals Digestion	Completed			07/16/13	X/X	SW846-3005
Percent Solid	82		%	07/15/13	JL	E160.3
Soil Extraction for PCB	Completed			07/15/13	BB/V	SW3545
Soil Extraction SVOA PAH	Completed			07/15/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/15/13	BS/F	3545
Mercury Digestion	Completed			07/17/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/16/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/15/13	X	EPA 1312
Total Metals Digest	Completed			07/15/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/15/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	59	mg/Kg	07/16/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-60 5-10 FT

Phoenix I.D.: BF05841

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	07/16/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	80		%	07/16/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	400	ug/Kg	07/16/13	AW	SW 8082
PCB-1221	ND	400	ug/Kg	07/16/13	AW	SW 8082
PCB-1232	ND	400	ug/Kg	07/16/13	AW	SW 8082
PCB-1242	ND	400	ug/Kg	07/16/13	AW	SW 8082
PCB-1248	ND	400	ug/Kg	07/16/13	AW	SW 8082
PCB-1254	ND	400	ug/Kg	07/16/13	AW	SW 8082
PCB-1260	ND	400	ug/Kg	07/16/13	AW	SW 8082
PCB-1262	ND	400	ug/Kg	07/16/13	AW	SW 8082
PCB-1268	ND	400	ug/Kg	07/16/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	72		%	07/16/13	AW	30 - 150 %
% TCMX	70		%	07/16/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,1,1-Trichloroethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	07/15/13	H/J	SW8260
1,1,2-Trichloroethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloropropene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichloropropane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromoethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichlorobenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloroethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloropropane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichlorobenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichloropropane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
1,4-Dichlorobenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
2,2-Dichloropropane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
2-Chlorotoluene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
2-Hexanone	ND	32	ug/Kg	07/15/13	H/J	SW8260
2-Isopropyltoluene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
4-Chlorotoluene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	07/15/13	H/J	SW8260
Acetone	ND	38	ug/Kg	07/15/13	H/J	SW8260
Acrylonitrile	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Benzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Bromobenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Bromochloromethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-60 5-10 FT

Phoenix I.D.: BF05841

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Bromoform	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Bromomethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Carbon Disulfide	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Carbon tetrachloride	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Chlorobenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Chloroethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Chloroform	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Chloromethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Dibromochloromethane	ND	3.8	ug/Kg	07/15/13	H/J	SW8260
Dibromomethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Dichlorodifluoromethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Ethylbenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Hexachlorobutadiene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Isopropylbenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
m&p-Xylene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Methyl Ethyl Ketone	ND	38	ug/Kg	07/15/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	07/15/13	H/J	SW8260
Methylene chloride	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Naphthalene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
n-Butylbenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
n-Propylbenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
o-Xylene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
p-Isopropyltoluene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
sec-Butylbenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Styrene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
tert-Butylbenzene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Tetrachloroethene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	07/15/13	H/J	SW8260
Toluene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Total Xylenes	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	07/15/13	H/J	SW8260
Trichloroethene	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Trichlorofluoromethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Trichlorotrifluoroethane	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
Vinyl chloride	ND	6.4	ug/Kg	07/15/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	106		%	07/15/13	H/J	70 - 130 %
% Bromofluorobenzene	86		%	07/15/13	H/J	70 - 130 %
% Dibromofluoromethane	100		%	07/15/13	H/J	70 - 130 %
% Toluene-d8	96		%	07/15/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthylene	ND	280	ug/Kg	07/15/13	KCA	SW 8270

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-60 5-10 FT

Phoenix I.D.: BF05841

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Benz(a)anthracene	380	280	ug/Kg	07/15/13	KCA	SW 8270
Benzo(a)pyrene	310	280	ug/Kg	07/15/13	KCA	SW 8270
Benzo(b)fluoranthene	370	280	ug/Kg	07/15/13	KCA	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Chrysene	320	280	ug/Kg	07/15/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Fluoranthene	340	280	ug/Kg	07/15/13	KCA	SW 8270
Fluorene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Naphthalene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Phenanthrene	ND	280	ug/Kg	07/15/13	KCA	SW 8270
Pyrene	340	280	ug/Kg	07/15/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	87		%	07/15/13	KCA	30 - 130 %
% Nitrobenzene-d5	84		%	07/15/13	KCA	30 - 130 %
% Terphenyl-d14	84		%	07/15/13	KCA	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/15/13	6:20
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05842

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-61 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	07/16/13	EK	SW6010
Arsenic	2.2	0.7	mg/Kg	07/16/13	EK	SW6010
Barium	23.5	0.36	mg/Kg	07/16/13	EK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	07/16/13	EK	SW6010
Chromium	8.35	0.36	mg/Kg	07/16/13	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	07/17/13	RS	SW-7471
Lead	9.57	0.36	mg/Kg	07/16/13	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	07/16/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	07/16/13	EK	SW6010
SPLP Barium	0.075	0.010	mg/L	07/16/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/16/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	07/16/13	RS	1312/SW7470
SPLP Lead	0.021	0.010	mg/L	07/16/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/16/13	EK	SW6010
SPLP Metals Digestion	Completed			07/16/13	X/X	SW846-3005
Percent Solid	94		%	07/15/13	JL	E160.3
Soil Extraction for PCB	Completed			07/15/13	BB/V	SW3545
Soil Extraction SVOA PAH	Completed			07/15/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/15/13	BS/F	3545
Mercury Digestion	Completed			07/17/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/16/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/15/13	X	EPA 1312
Total Metals Digest	Completed			07/15/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/15/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	53	mg/Kg	07/16/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-61 1-5 FT

Phoenix I.D.: BF05842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	07/16/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	92		%	07/16/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	350	ug/Kg	07/16/13	AW	SW 8082
PCB-1221	ND	350	ug/Kg	07/16/13	AW	SW 8082
PCB-1232	ND	350	ug/Kg	07/16/13	AW	SW 8082
PCB-1242	ND	350	ug/Kg	07/16/13	AW	SW 8082
PCB-1248	ND	350	ug/Kg	07/16/13	AW	SW 8082
PCB-1254	ND	350	ug/Kg	07/16/13	AW	SW 8082
PCB-1260	ND	350	ug/Kg	07/16/13	AW	SW 8082
PCB-1262	ND	350	ug/Kg	07/16/13	AW	SW 8082
PCB-1268	ND	350	ug/Kg	07/16/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	78		%	07/16/13	AW	30 - 150 %
% TCMX	82		%	07/16/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	07/15/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
2-Hexanone	ND	27	ug/Kg	07/15/13	H/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	07/15/13	H/J	SW8260
Acetone	ND	32	ug/Kg	07/15/13	H/J	SW8260
Acrylonitrile	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Benzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-61 1-5 FT

Phoenix I.D.: BF05842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Bromoform	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Bromomethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Chloroethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Chloroform	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Chloromethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	07/15/13	H/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	07/15/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	07/15/13	H/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Naphthalene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
o-Xylene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Styrene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	07/15/13	H/J	SW8260
Toluene	8.3	5.4	ug/Kg	07/15/13	H/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	07/15/13	H/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	07/15/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	104		%	07/15/13	H/J	70 - 130 %
% Bromofluorobenzene	89		%	07/15/13	H/J	70 - 130 %
% Dibromofluoromethane	102		%	07/15/13	H/J	70 - 130 %
% Toluene-d8	96		%	07/15/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthylene	ND	240	ug/Kg	07/15/13	KCA	SW 8270

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF05842

Client ID: PSGP-61 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benz(a)anthracene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benzo(a)pyrene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benzo(ghi)perylene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Chrysene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Fluoranthene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Fluorene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Naphthalene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Phenanthrene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Pyrene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	84		%	07/15/13	KCA	30 - 130 %
% Nitrobenzene-d5	78		%	07/15/13	KCA	30 - 130 %
% Terphenyl-d14	83		%	07/15/13	KCA	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/15/13	7:00
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05843

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-62 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	07/16/13	EK	SW6010
Arsenic	1.4	0.7	mg/Kg	07/16/13	EK	SW6010
Barium	19.7	0.34	mg/Kg	07/16/13	EK	SW6010
Cadmium	< 0.34	0.34	mg/Kg	07/16/13	EK	SW6010
Chromium	8.58	0.34	mg/Kg	07/16/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	07/17/13	RS	SW-7471
Lead	5.42	0.34	mg/Kg	07/16/13	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	07/16/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	07/16/13	EK	SW6010
SPLP Barium	0.020	0.010	mg/L	07/16/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/16/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	07/16/13	RS	1312/SW7470
SPLP Lead	0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/16/13	EK	SW6010
SPLP Metals Digestion	Completed			07/16/13	X/X	SW846-3005
Percent Solid	96		%	07/15/13	JL	E160.3
Soil Extraction for PCB	Completed			07/15/13	BB/V	SW3545
Soil Extraction SVOA PAH	Completed			07/15/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/15/13	BS/F	3545
Mercury Digestion	Completed			07/17/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/16/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/15/13	X	EPA 1312
Total Metals Digest	Completed			07/15/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/15/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	52	mg/Kg	07/16/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-62 1-5 FT

Phoenix I.D.: BF05843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	07/16/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	92		%	07/16/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	340	ug/Kg	07/16/13	AW	SW 8082
PCB-1221	ND	340	ug/Kg	07/16/13	AW	SW 8082
PCB-1232	ND	340	ug/Kg	07/16/13	AW	SW 8082
PCB-1242	ND	340	ug/Kg	07/16/13	AW	SW 8082
PCB-1248	ND	340	ug/Kg	07/16/13	AW	SW 8082
PCB-1254	ND	340	ug/Kg	07/16/13	AW	SW 8082
PCB-1260	ND	340	ug/Kg	07/16/13	AW	SW 8082
PCB-1262	ND	340	ug/Kg	07/16/13	AW	SW 8082
PCB-1268	ND	340	ug/Kg	07/16/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	85		%	07/16/13	AW	30 - 150 %
% TCMX	77		%	07/16/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	07/15/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/15/13	H/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/15/13	H/J	SW8260
Acetone	ND	34	ug/Kg	07/15/13	H/J	SW8260
Acrylonitrile	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Benzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-62 1-5 FT

Phoenix I.D.: BF05843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Bromoform	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Bromomethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Chloroethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Chloroform	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Chloromethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	07/15/13	H/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	07/15/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	07/15/13	H/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Naphthalene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
o-Xylene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Styrene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	07/15/13	H/J	SW8260
Toluene	9.4	5.7	ug/Kg	07/15/13	H/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	07/15/13	H/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	07/15/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	07/15/13	H/J	70 - 130 %
% Bromofluorobenzene	93		%	07/15/13	H/J	70 - 130 %
% Dibromofluoromethane	96		%	07/15/13	H/J	70 - 130 %
% Toluene-d8	97		%	07/15/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthylene	ND	240	ug/Kg	07/15/13	KCA	SW 8270

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-62 1-5 FT

Phoenix I.D.: BF05843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benz(a)anthracene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benzo(a)pyrene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benzo(ghi)perylene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Chrysene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Fluoranthene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Fluorene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Naphthalene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Phenanthrene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
Pyrene	ND	240	ug/Kg	07/15/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	82		%	07/15/13	KCA	30 - 130 %
% Nitrobenzene-d5	79		%	07/15/13	KCA	30 - 130 %
% Terphenyl-d14	73		%	07/15/13	KCA	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/15/13	8:40
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05844

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-63 1-5 FTR

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	07/16/13	EK	SW6010
Arsenic	1.2	0.8	mg/Kg	07/16/13	EK	SW6010
Barium	41.7	0.38	mg/Kg	07/16/13	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	07/16/13	EK	SW6010
Chromium	9.30	0.38	mg/Kg	07/16/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	07/17/13	RS	SW-7471
Lead	8.82	0.38	mg/Kg	07/16/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	07/16/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	07/16/13	EK	SW6010
SPLP Barium	0.063	0.010	mg/L	07/16/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/16/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/16/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	07/16/13	RS	1312/SW7470
SPLP Lead	0.020	0.010	mg/L	07/16/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/16/13	EK	SW6010
SPLP Metals Digestion	Completed			07/16/13	X/X	SW846-3005
Percent Solid	91		%	07/15/13	JL	E160.3
Soil Extraction for PCB	Completed			07/15/13	BB/V	SW3545
Soil Extraction SVOA PAH	Completed			07/15/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/15/13	BS/F	3545
Mercury Digestion	Completed			07/17/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/16/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/15/13	X	EPA 1312
Total Metals Digest	Completed			07/15/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/15/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	130	53	mg/Kg	07/16/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-63 1-5 FTR

Phoenix I.D.: BF05844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	07/16/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	150		%	07/16/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	07/16/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	07/16/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	07/16/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	07/16/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	07/16/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	07/16/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	07/16/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	07/16/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	07/16/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	79		%	07/16/13	AW	30 - 150 %
% TCMX	79		%	07/16/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/15/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromoethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/15/13	H/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/15/13	H/J	SW8260
Acetone	ND	35	ug/Kg	07/15/13	H/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Benzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Bromoform	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Bromomethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Chloroethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Chloroform	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Chloromethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/15/13	H/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/15/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/15/13	H/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Naphthalene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
o-Xylene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Styrene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/15/13	H/J	SW8260
Toluene	6.7	5.9	ug/Kg	07/15/13	H/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/15/13	H/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	07/15/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	07/15/13	H/J	70 - 130 %
% Bromofluorobenzene	87		%	07/15/13	H/J	70 - 130 %
% Dibromofluoromethane	100		%	07/15/13	H/J	70 - 130 %
% Toluene-d8	95		%	07/15/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/15/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/15/13	KCA	SW 8270

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-63 1-5 FTR

Phoenix I.D.: BF05844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	780	250	ug/Kg	07/15/13	KCA	SW 8270
Benz(a)anthracene	1400	250	ug/Kg	07/15/13	KCA	SW 8270
Benzo(a)pyrene	820	250	ug/Kg	07/15/13	KCA	SW 8270
Benzo(b)fluoranthene	1300	250	ug/Kg	07/15/13	KCA	SW 8270
Benzo(ghi)perylene	480	250	ug/Kg	07/15/13	KCA	SW 8270
Benzo(k)fluoranthene	300	250	ug/Kg	07/15/13	KCA	SW 8270
Chrysene	1100	250	ug/Kg	07/15/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/15/13	KCA	SW 8270
Fluoranthene	3600	250	ug/Kg	07/15/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/15/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	410	250	ug/Kg	07/15/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/15/13	KCA	SW 8270
Phenanthrene	3800	250	ug/Kg	07/15/13	KCA	SW 8270
Pyrene	2600	250	ug/Kg	07/15/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	96		%	07/15/13	KCA	30 - 130 %
% Nitrobenzene-d5	88		%	07/15/13	KCA	30 - 130 %
% Terphenyl-d14	92		%	07/15/13	KCA	30 - 130 %

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

Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	CK	07/15/13	8:05
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05845

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-61 GW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	07/16/13	LK	SW6010
Arsenic	< 0.004	0.004	mg/L	07/16/13	LK	SW6010
Barium	0.236	0.002	mg/L	07/16/13	LK	SW6010
Cadmium	0.001	0.001	mg/L	07/16/13	LK	SW6010
Chromium	0.035	0.001	mg/L	07/16/13	LK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	07/16/13	EK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	07/16/13	LK	SW6010
Barium (Dissolved)	0.063	0.002	mg/L	07/16/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	07/16/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	07/16/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	07/16/13	RS	SW7470
Lead (Dissolved)	< 0.002	0.002	mg/L	07/16/13	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	07/16/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	07/16/13	RS	SW7470
Lead	0.064	0.002	mg/L	07/16/13	LK	SW6010
Selenium	< 0.010	0.010	mg/L	07/16/13	LK	SW6010
Extraction of CT ETPH	Completed			07/15/13	I/D	3510/3520
Dissolved Mercury Digestion	Completed			07/16/13	X/X	SW7470
Mercury Digestion	Completed			07/16/13	X/X	SW7470
PCB Extraction	Completed			07/15/13	L	SW3510C
Semi-Volatile Extraction	Completed			07/15/13	I/D	SW3520
Dissolved Metals Preparation	Completed			07/15/13	Z/AG/Z/AG	SW846-3005
Total Metals Digestion	Completed			07/15/13	AG	SW846 - 3050
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	0.070	mg/L	07/16/13	JRB	CTETPH/8015D
Identification	ND		mg/L	07/16/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	121		%	07/16/13	JRB	50 - 150 %

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-61 GW

Phoenix I.D.: BF05845

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Polychlorinated Biphenyls						
PCB-1016	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1221	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1232	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1242	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1248	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1254	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1260	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1262	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1268	ND	0.50	ug/L	07/16/13	AW	8082
QA/QC Surrogates						
% DCBP	113		%	07/16/13	AW	30 - 150 %
% TCMX	96		%	07/16/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	07/15/13	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	07/15/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	07/15/13	R/T	SW8260
Acetone	ND	25	ug/L	07/15/13	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	07/15/13	R/T	SW8260
Benzene	ND	0.70	ug/L	07/15/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
Bromoform	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	07/15/13	R/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Carbon Disulfide	ND	5.0	ug/L	07/15/13	R/T	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Chlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Chloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Chloroform	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Chloromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	07/15/13	R/T	SW8260	
Dibromochloromethane	ND	0.50	ug/L	07/15/13	R/T	SW8260	
Dibromomethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Ethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	07/15/13	R/T	SW8260	
Isopropylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
m&p-Xylene	2.3	1.0	ug/L	07/15/13	R/T	SW8260	
Methyl ethyl ketone	ND	7.0	ug/L	07/15/13	R/T	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Methylene chloride	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Naphthalene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
n-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
n-Propylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
o-Xylene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Styrene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Tetrachloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	07/15/13	R/T	SW8260	
Toluene	5.1	1.0	ug/L	07/15/13	R/T	SW8260	
Total Xylenes	2.3	1.0	ug/L	07/15/13	R/T	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	07/15/13	R/T	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	07/15/13	R/T	SW8260	
Trichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Vinyl chloride	ND	1.0	ug/L	07/15/13	R/T	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	07/15/13	R/T	70 - 130 %	
% Bromofluorobenzene	100		%	07/15/13	R/T	70 - 130 %	
% Dibromofluoromethane	99		%	07/15/13	R/T	70 - 130 %	
% Toluene-d8	103		%	07/15/13	R/T	70 - 130 %	

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Acenaphthene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Acenaphthylene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Anthracene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Benz(a)anthracene	0.03	0.020	ug/L	07/17/13	KCA	8270(SIM)	B*
Benzo(a)pyrene	0.03	0.020	ug/L	07/17/13	KCA	8270(SIM)	

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-61 GW

Phoenix I.D.: BF05845

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Benzo(b)fluoranthene	0.04	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Benzo(ghi)perylene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Benzo(k)fluoranthene	ND	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Chrysene	0.02	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Dibenz(a,h)anthracene	0.01	0.010	ug/L	07/17/13	KCA	8270(SIM)	
Fluoranthene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Fluorene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Naphthalene	0.16	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Phenanthrene	ND	0.070	ug/L	07/17/13	KCA	8270(SIM)	
Pyrene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
QA/QC Surrogates							
% 2-Fluorobiphenyl	88		%	07/17/13	KCA	30 - 130 %	
% Nitrobenzene-d5	124		%	07/17/13	KCA	30 - 130 %	
% Terphenyl-d14	>160		%	07/17/13	KCA	30 - 130 %	3

3 = This parameter exceeds laboratory specified limits.
B* = Present in blank, a bias is possible.

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

Comments:

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	CK	07/15/13	9:50
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05846

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 GW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead (Dissolved)	< 0.002	0.002	mg/L	07/16/13	LK	SW6010
Lead	< 0.002	0.002	mg/L	07/16/13	LK	SW6010
Extraction of CT ETPH	Completed			07/15/13	I/D	3510/3520
Semi-Volatile Extraction	Completed			07/15/13	I/D	SW3520
Dissolved Metals Preparation	Completed			07/15/13	Z/AG/Z/AC	SW846-3005
Total Metals Digestion	Completed			07/15/13	AG	SW846 - 3050
TPH by GC (Extractable Products)						
Ext. Petroleum HC	0.60	0.070	mg/L	07/16/13	JRB	CTETPH/8015D
Identification	**		mg/L	07/16/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	126		%	07/16/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,4-Trimethylbenzene	22	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	07/15/13	R/T	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-43 GW

Phoenix I.D.: BF05846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3,5-Trimethylbenzene	8.4	1.0	ug/L	07/15/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	07/15/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	07/15/13	R/T	SW8260
Acetone	ND	25	ug/L	07/15/13	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	07/15/13	R/T	SW8260
Benzene	ND	0.70	ug/L	07/15/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
Bromoform	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	07/15/13	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	07/15/13	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Chloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Chloroform	ND	1.0	ug/L	07/15/13	R/T	SW8260
Chloromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	07/15/13	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	07/15/13	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
m&p-Xylene	2.6	1.0	ug/L	07/15/13	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	07/15/13	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	07/15/13	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	07/15/13	R/T	SW8260
Naphthalene	5.2	1.0	ug/L	07/15/13	R/T	SW8260
n-Butylbenzene	3.6	1.0	ug/L	07/15/13	R/T	SW8260
n-Propylbenzene	4.7	1.0	ug/L	07/15/13	R/T	SW8260
o-Xylene	1.1	1.0	ug/L	07/15/13	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
sec-Butylbenzene	1.8	1.0	ug/L	07/15/13	R/T	SW8260
Styrene	ND	1.0	ug/L	07/15/13	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	07/15/13	R/T	SW8260
Toluene	3.8	1.0	ug/L	07/15/13	R/T	SW8260
Total Xylenes	3.7	1.0	ug/L	07/15/13	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
trans-1,3-Dichloropropene	ND	0.50	ug/L	07/15/13	R/T	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	07/15/13	R/T	SW8260	
Trichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Vinyl chloride	ND	1.0	ug/L	07/15/13	R/T	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	07/15/13	R/T	70 - 130 %	
% Bromofluorobenzene	104		%	07/15/13	R/T	70 - 130 %	
% Dibromofluoromethane	99		%	07/15/13	R/T	70 - 130 %	
% Toluene-d8	106		%	07/15/13	R/T	70 - 130 %	
Semivolatiles by SIM							
2-Methylnaphthalene	8.4	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Acenaphthene	5.5	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Acenaphthylene	1	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Anthracene	9.1	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Benz(a)anthracene	18	0.020	ug/L	07/17/13	KCA	8270(SIM)	B
Benzo(a)pyrene	14	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Benzo(b)fluoranthene	20	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Benzo(ghi)perylene	8	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Benzo(k)fluoranthene	7	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Chrysene	17	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Dibenz(a,h)anthracene	2.4	0.010	ug/L	07/17/13	KCA	8270(SIM)	
Fluoranthene	41	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Fluorene	7.7	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Indeno(1,2,3-cd)pyrene	6.9	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Naphthalene	5.5	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Phenanthrene	45	0.070	ug/L	07/17/13	KCA	8270(SIM)	
Pyrene	32	0.10	ug/L	07/17/13	KCA	8270(SIM)	
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	07/17/13	KCA	30 - 130 %	
% Nitrobenzene-d5	111		%	07/17/13	KCA	30 - 130 %	
% Terphenyl-d14	27		%	07/17/13	KCA	30 - 130 %	3

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: PSGP-43 GW

Phoenix I.D.: BF05846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

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

Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

* Poor surrogate recovery was observed for semivolatiles. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	CK	07/15/13	10:05
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05847

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FB-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	07/16/13	LK	SW6010/E200.7
Arsenic	< 0.004	0.004	mg/L	07/16/13	LK	SW6010/E200.7
Barium	< 0.002	0.002	mg/L	07/16/13	LK	SW6010/E200.7
Cadmium	< 0.001	0.001	mg/L	07/16/13	LK	SW6010/E200.7
Chromium	< 0.001	0.001	mg/L	07/16/13	LK	SW6010/E200.7
Silver (Dissolved)	< 0.001	0.001	mg/L	07/16/13	EK	SW6010/E200.7
Arsenic (Dissolved)	< 0.004	0.004	mg/L	07/16/13	LK	SW6010/E200.7
Barium (Dissolved)	< 0.002	0.002	mg/L	07/16/13	LK	SW6010/E200.7
Cadmium (Dissolved)	< 0.001	0.001	mg/L	07/16/13	LK	SW6010/E200.7
Chromium (Dissolved)	< 0.001	0.001	mg/L	07/16/13	LK	SW6010/E200.7
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	07/16/13	RS	SW7470/E245.1
Lead (Dissolved)	< 0.002	0.002	mg/L	07/16/13	LK	SW6010/E200.7
Selenium (Dissolved)	< 0.011	0.011	mg/L	07/16/13	LK	SW6010/E200.7
Mercury	< 0.0002	0.0002	mg/L	07/16/13	RS	SW7470/245.1
Lead	< 0.002	0.002	mg/L	07/16/13	LK	SW6010/E200.7
Selenium	< 0.010	0.010	mg/L	07/16/13	LK	SW6010/E200.7
Extraction of CT ETPH	Completed			07/15/13	I/D	3510/3520
Dissolved Mercury Digestion	Completed			07/16/13	X/X	SW7470/245.1
Mercury Digestion	Completed			07/16/13	X/X	SW7470/245.1
PCB Extraction	Completed			07/15/13	L	SW3510C
Semi-Volatile Extraction	Completed			07/15/13	I/D	SW3520
Dissolved Metals Preparation	Completed			07/15/13	Z/AG/Z/AG	SW846-3005
Total Metals Digestion	Completed			07/15/13	AG	SW846 - 3050
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	0.070	mg/L	07/16/13	JRB	CTETPH/8015D
Identification	ND		mg/L	07/16/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	79		%	07/16/13	JRB	50 - 150 %

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FB-2

Phoenix I.D.: BF05847

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Polychlorinated Biphenyls						
PCB-1016	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1221	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1232	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1242	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1248	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1254	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1260	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1262	ND	0.50	ug/L	07/16/13	AW	8082
PCB-1268	ND	0.50	ug/L	07/16/13	AW	8082
QA/QC Surrogates						
% DCBP	109		%	07/16/13	AW	30 - 150 %
% TCMX	87		%	07/16/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	07/15/13	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	07/15/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	07/15/13	R/T	SW8260
Acetone	ND	25	ug/L	07/15/13	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	07/15/13	R/T	SW8260
Benzene	ND	0.70	ug/L	07/15/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
Bromoform	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	07/15/13	R/T	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FB-2

Phoenix I.D.: BF05847

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Carbon Disulfide	ND	5.0	ug/L	07/15/13	R/T	SW8260	
Carbon tetrachloride	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Chlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Chloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Chloroform	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Chloromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
cis-1,2-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
cis-1,3-Dichloropropene	ND	0.50	ug/L	07/15/13	R/T	SW8260	
Dibromochloromethane	ND	0.50	ug/L	07/15/13	R/T	SW8260	
Dibromomethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Dichlorodifluoromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Ethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Hexachlorobutadiene	ND	0.40	ug/L	07/15/13	R/T	SW8260	
Isopropylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
m&p-Xylene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Methyl ethyl ketone	ND	5.0	ug/L	07/15/13	R/T	SW8260	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Methylene chloride	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Naphthalene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
n-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
n-Propylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
o-Xylene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Styrene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Tetrachloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	07/15/13	R/T	SW8260	
Toluene	2.7	1.0	ug/L	07/15/13	R/T	SW8260	
Total Xylenes	ND	1.0	ug/L	07/15/13	R/T	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
trans-1,3-Dichloropropene	ND	0.50	ug/L	07/15/13	R/T	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	07/15/13	R/T	SW8260	
Trichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260	
Vinyl chloride	ND	1.0	ug/L	07/15/13	R/T	SW8260	
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	07/15/13	R/T	70 - 130 %	
% Bromofluorobenzene	96		%	07/15/13	R/T	70 - 130 %	
% Dibromofluoromethane	104		%	07/15/13	R/T	70 - 130 %	
% Toluene-d8	106		%	07/15/13	R/T	70 - 130 %	
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Acenaphthene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Acenaphthylene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Anthracene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Benz(a)anthracene	ND	0.020	ug/L	07/17/13	KCA	8270(SIM)	B
Benzo(a)pyrene	ND	0.020	ug/L	07/17/13	KCA	8270(SIM)	

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: FB-2

Phoenix I.D.: BF05847

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Benzo(b)fluoranthene	ND	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Benzo(ghi)perylene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Benzo(k)fluoranthene	ND	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Chrysene	ND	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Dibenz(a,h)anthracene	ND	0.010	ug/L	07/17/13	KCA	8270(SIM)	
Fluoranthene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Fluorene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	07/17/13	KCA	8270(SIM)	
Naphthalene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
Phenanthrene	ND	0.070	ug/L	07/17/13	KCA	8270(SIM)	
Pyrene	ND	0.10	ug/L	07/17/13	KCA	8270(SIM)	
QA/QC Surrogates							
% 2-Fluorobiphenyl	86		%	07/17/13	KCA	30 - 130 %	
% Nitrobenzene-d5	121		%	07/17/13	KCA	30 - 130 %	
% Terphenyl-d14	>160		%	07/17/13	KCA	30 - 130 %	3

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

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

Comments:

* One of the surrogate recoveries was above the upper range due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria. No significant bias is suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	CK	07/15/13	0:00
Location Code:	MAGU-DAS	Received by:	LB	07/15/13	10:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF05840
Phoenix ID: BF05848

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	07/15/13	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	07/15/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	07/15/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	07/15/13	R/T	SW8260
Acetone	ND	25	ug/L	07/15/13	R/T	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-4

Phoenix I.D.: BF05848

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acrylonitrile	ND	5.0	ug/L	07/15/13	R/T	SW8260
Benzene	ND	0.70	ug/L	07/15/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
Bromoform	ND	1.0	ug/L	07/15/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	07/15/13	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	07/15/13	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Chloroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Chloroform	ND	1.0	ug/L	07/15/13	R/T	SW8260
Chloromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	07/15/13	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	07/15/13	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	07/15/13	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	07/15/13	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	07/15/13	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	07/15/13	R/T	SW8260
Naphthalene	ND	1.0	ug/L	07/15/13	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
o-Xylene	ND	1.0	ug/L	07/15/13	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Styrene	ND	1.0	ug/L	07/15/13	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	07/15/13	R/T	SW8260
Toluene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	07/15/13	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	07/15/13	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	07/15/13	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	07/15/13	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	07/15/13	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	07/15/13	R/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	07/15/13	R/T	70 - 130 %
% Bromofluorobenzene	96		%	07/15/13	R/T	70 - 130 %
% Dibromofluoromethane	109		%	07/15/13	R/T	70 - 130 %
% Toluene-d8	106		%	07/15/13	R/T	70 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF05848

Client ID: TB-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

TRIP BLANK INCLUDED

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

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 19, 2013

QA/QC Data

SDG I.D.: GBF05840

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 240312, QC Sample No: BF05109 (BF05840, BF05841, BF05842, BF05843, BF05844)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.007	0.006	NC	90.5	89.5	1.1	93.9	96.2	2.4	75 - 125	20	
Barium	BRL	0.082	0.082	0	89.8	88.9	1.0	93.4	95.5	2.2	75 - 125	20	
Cadmium	BRL	<0.005	<0.005	NC	90.6	89.4	1.3	93.3	95.4	2.2	75 - 125	20	
Chromium	BRL	<0.010	0.012	NC	89.5	88.6	1.0	93.9	96.1	2.3	75 - 125	20	
Lead	BRL	<0.010	<0.010	NC	90.0	88.9	1.2	93.9	96.1	2.3	75 - 125	20	
Selenium	BRL	<0.020	<0.020	NC	92.1	90.5	1.8	96.1	98.3	2.3	75 - 125	20	
Silver	BRL	<0.010	<0.010	NC	87.4	86.6	0.9	91.3	93.3	2.2	75 - 125	20	
QA/QC Batch 240519, QC Sample No: BF05754 (BF05840, BF05841, BF05842, BF05843, BF05844)													
ICP Metals - Soil													
Arsenic	BRL	1.1	0.88	NC	89.4	85.6	4.3	81.5	83.4	2.3	75 - 125	30	
Barium	BRL	19.4	28.9 *	39.3	97.1	94.8	2.4	90.1	89.8	0.3	75 - 125	30	r
Cadmium	BRL	0.17	0.34 B	NC	92.1	90.0	2.3	86.4	88.5	2.4	75 - 125	30	
Chromium	BRL	8.43	11.2	28.2	98.8	96.2	2.7	89.6	92.3	3.0	75 - 125	30	
Lead	BRL	3.70	4.12	10.7	95.1	93.8	1.4	84.4	89.1	5.4	75 - 125	30	
Selenium	BRL	<1.6	<1.5	NC	75.0	74.1	1.2	66.9	68.5	2.4	75 - 125	30	l,m
Silver	BRL	<0.40	<0.37	NC	93.6	91.5	2.3	87.8	89.5	1.9	75 - 125	30	
QA/QC Batch 240876, QC Sample No: BF05842 (BF05840, BF05841, BF05842, BF05843, BF05844)													
Mercury - Soil	BRL	<0.08	<0.07	NC	87.8	87.8	0.0	91.0	88.6	2.7	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 240568, QC Sample No: BF05847 (BF05845, BF05846, BF05847)													
ICP Metals - Aqueous													
Arsenic	BRL	<0.004	<0.004	NC	98.9	99.1	0.2	96.0	98.1	2.2	75 - 125	20	
Barium	BRL	<0.002	<0.002	NC	106	106	0.0	103	105	1.9	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	101	100	1.0	96.4	97.6	1.2	75 - 125	20	
Chromium	BRL	<0.001	<0.001	NC	98.2	97.9	0.3	95.3	96.7	1.5	75 - 125	20	
Lead	BRL	<0.002	<0.002	NC	97.5	97.4	0.1	94.5	95.5	1.1	75 - 125	20	
Selenium	BRL	<0.010	<0.010	NC	97.4	97.8	0.4	94.9	96.7	1.9	75 - 125	20	
Silver	BRL	<0.001	<0.001	NC	93.2	94.0	0.9	93.0	94.9	2.0	75 - 125	20	
QA/QC Batch 240633, QC Sample No: BF05847 (BF05840, BF05841, BF05842, BF05843, BF05844, BF05845, BF05847)													
Mercury - Water	BRL	<0.0002	<0.0002	NC	99.8	97.8	2.0	96.9	99.2	2.3	70 - 130	20	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 240606, QC Sample No: BF06123 (BF05845, BF05846, BF05847)													
ICP Metals - Dissolved													
Arsenic	BRL	0.004	0.004	NC	84.3	88.2	4.5	91.9	90.5	1.5	75 - 125	20	
Barium	BRL	0.042	0.042	0	88.0	91.6	4.0	92.5	90.9	1.7	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	82.5	86.7	5.0	92.2	90.9	1.4	75 - 125	20	
Chromium	BRL	<0.001	<0.001	NC	79.6	83.6	4.9	89.5	87.7	2.0	75 - 125	20	

QA/QC Data

SDG I.D.: GBF05840

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Lead	BRL	<0.002	<0.002	NC	79.6	84.0	5.4	88.7	87.2	1.7	75 - 125	20	
Selenium	BRL	<0.011	<0.011	NC	82.4	86.5	4.9	89.2	87.0	2.5	75 - 125	20	
Silver	BRL	<0.001	<0.001	NC	84.9	83.9	1.2	70.5	67.6	4.2	75 - 125	20	m

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.

PHOENIX

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 19, 2013

QA/QC Data

SDG I.D.: GBF05840

QA/QC Batch 240801, QC Sample No: BF04362 (BF05845, BF05846, BF05847, BF05848)

Volatiles - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	93	98	5.2	98	94	4.2	70 - 130	30	
1,1,1-Trichloroethane	ND	103	102	1.0	112	109	2.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	89	92	3.3	95	94	1.1	70 - 130	30	
1,1,2-Trichloroethane	ND	96	104	8.0	104	98	5.9	70 - 130	30	
1,1-Dichloroethane	ND	101	99	2.0	106	109	2.8	70 - 130	30	
1,1-Dichloroethene	ND	108	104	3.8	116	119	2.6	70 - 130	30	
1,1-Dichloropropene	ND	98	98	0.0	103	100	3.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	78	84	7.4	79	75	5.2	70 - 130	30	
1,2,3-Trichloropropane	ND	89	90	1.1	92	97	5.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	78	85	8.6	80	77	3.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	93	97	4.2	97	94	3.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	82	88	7.1	79	80	1.3	70 - 130	30	
1,2-Dibromoethane	ND	95	103	8.1	102	97	5.0	70 - 130	30	
1,2-Dichlorobenzene	ND	87	93	6.7	93	90	3.3	70 - 130	30	
1,2-Dichloroethane	ND	97	99	2.0	101	100	1.0	70 - 130	30	
1,2-Dichloropropane	ND	98	99	1.0	104	103	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	93	95	2.1	97	94	3.1	70 - 130	30	
1,3-Dichlorobenzene	ND	89	94	5.5	93	90	3.3	70 - 130	30	
1,3-Dichloropropane	ND	92	97	5.3	97	96	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	87	94	7.7	93	90	3.3	70 - 130	30	
2,2-Dichloropropane	ND	99	98	1.0	83	84	1.2	70 - 130	30	
2-Chlorotoluene	ND	94	96	2.1	95	92	3.2	70 - 130	30	
2-Hexanone	ND	88	95	7.7	85	89	4.6	70 - 130	30	
2-Isopropyltoluene	ND	90	93	3.3	95	92	3.2	70 - 130	30	
4-Chlorotoluene	ND	94	96	2.1	95	92	3.2	70 - 130	30	
4-Methyl-2-pentanone	ND	97	101	4.0	98	98	0.0	70 - 130	30	
Acetone	ND	100	109	8.6	90	97	7.5	70 - 130	30	
Acrylonitrile	ND	89	97	8.6	94	100	6.2	70 - 130	30	
Benzene	ND	99	100	1.0	109	106	2.8	70 - 130	30	
Bromobenzene	ND	87	91	4.5	92	88	4.4	70 - 130	30	
Bromochloromethane	ND	97	101	4.0	106	106	0.0	70 - 130	30	
Bromodichloromethane	ND	99	101	2.0	104	102	1.9	70 - 130	30	
Bromoform	ND	92	102	10.3	98	97	1.0	70 - 130	30	
Bromomethane	ND	111	114	2.7	65	88	30.1	70 - 130	30	m
Carbon Disulfide	ND	104	102	1.9	111	118	6.1	70 - 130	30	
Carbon tetrachloride	ND	98	101	3.0	105	102	2.9	70 - 130	30	
Chlorobenzene	ND	93	97	4.2	100	96	4.1	70 - 130	30	
Chloroethane	ND	116	113	2.6	112	122	8.5	70 - 130	30	
Chloroform	ND	102	103	1.0	110	109	0.9	70 - 130	30	
Chloromethane	ND	107	105	1.9	95	102	7.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	103	104	1.0	108	108	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBF05840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	95	98	3.1	97	95	2.1	70 - 130	30	
Dibromochloromethane	ND	92	99	7.3	95	93	2.1	70 - 130	30	
Dibromomethane	ND	94	100	6.2	104	100	3.9	70 - 130	30	
Dichlorodifluoromethane	ND	133	127	4.6	126	130	3.1	70 - 130	30	l
Ethylbenzene	ND	92	96	4.3	103	97	6.0	70 - 130	30	
Hexachlorobutadiene	ND	77	81	5.1	81	74	9.0	70 - 130	30	
Isopropylbenzene	ND	94	96	2.1	97	94	3.1	70 - 130	30	
m&p-Xylene	ND	93	97	4.2	102	97	5.0	70 - 130	30	
Methyl ethyl ketone	ND	97	99	2.0	107	109	1.9	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	89	94	5.5	96	99	3.1	70 - 130	30	
Methylene chloride	ND	88	91	3.4	97	99	2.0	70 - 130	30	
Naphthalene	ND	81	88	8.3	80	80	0.0	70 - 130	30	
n-Butylbenzene	ND	94	96	2.1	95	92	3.2	70 - 130	30	
n-Propylbenzene	ND	93	95	2.1	96	93	3.2	70 - 130	30	
o-Xylene	ND	92	96	4.3	101	97	4.0	70 - 130	30	
p-Isopropyltoluene	ND	92	95	3.2	95	92	3.2	70 - 130	30	
sec-Butylbenzene	ND	92	93	1.1	96	94	2.1	70 - 130	30	
Styrene	ND	88	93	5.5	103	98	5.0	70 - 130	30	
tert-Butylbenzene	ND	94	96	2.1	96	93	3.2	70 - 130	30	
Tetrachloroethene	ND	89	95	6.5	96	90	6.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	97	102	5.0	97	106	8.9	70 - 130	30	
Toluene	ND	98	100	2.0	108	103	4.7	70 - 130	30	
trans-1,2-Dichloroethene	ND	106	104	1.9	111	115	3.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	97	101	4.0	99	98	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	94	103	9.1	79	79	0.0	70 - 130	30	
Trichloroethene	ND	97	100	3.0	101	97	4.0	70 - 130	30	
Trichlorofluoromethane	ND	113	111	1.8	114	119	4.3	70 - 130	30	
Trichlorotrifluoroethane	ND	103	104	1.0	106	113	6.4	70 - 130	30	
Vinyl chloride	ND	119	113	5.2	104	112	7.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	99	99	0.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	96	104	103	1.0	105	106	0.9	70 - 130	30	
% Dibromofluoromethane	103	100	99	1.0	105	105	0.0	70 - 130	30	
% Toluene-d8	103	103	101	2.0	102	103	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 240559, QC Sample No: BF05401 (BF05845, BF05846, BF05847)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum HC	ND	72	116	46.8				60 - 120	30	r
% n-Pentacosane	76	83	130	44.1				50 - 150	20	r

QA/QC Batch 240228, QC Sample No: BF05510 (BF05840, BF05841)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	79	84	6.1	97	100	3.0	30 - 130	30	
Acenaphthene	ND	77	80	3.8	80	84	4.9	30 - 130	30	
Acenaphthylene	ND	77	81	5.1	82	84	2.4	30 - 130	30	
Anthracene	ND	77	80	3.8	83	85	2.4	30 - 130	30	
Benz(a)anthracene	ND	79	83	4.9	86	88	2.3	30 - 130	30	
Benzo(a)pyrene	ND	73	76	4.0	78	82	5.0	30 - 130	30	
Benzo(b)fluoranthene	ND	83	83	0.0	88	91	3.4	30 - 130	30	
Benzo(ghi)perylene	ND	73	78	6.6	60	68	12.5	30 - 130	30	
Benzo(k)fluoranthene	ND	85	90	5.7	95	98	3.1	30 - 130	30	
Chrysene	ND	81	85	4.8	85	88	3.5	30 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibenz(a,h)anthracene	ND	78	83	6.2	74	79	6.5	30 - 130	30
Fluoranthene	ND	90	90	0.0	91	94	3.2	30 - 130	30
Fluorene	ND	87	92	5.6	94	97	3.1	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	78	83	6.2	71	77	8.1	30 - 130	30
Naphthalene	ND	75	78	3.9	77	81	5.1	30 - 130	30
Phenanthrene	ND	80	82	2.5	85	89	4.6	30 - 130	30
Pyrene	ND	89	91	2.2	88	91	3.4	30 - 130	30
% 2-Fluorobiphenyl	58	80	83	3.7	85	88	3.5	30 - 130	30
% Nitrobenzene-d5	53	70	72	2.8	73	78	6.6	30 - 130	30
% Terphenyl-d14	62	101	101	0.0	99	101	2.0	30 - 130	30

Comment:

Poor surrogate observed in the prep blank.

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 240230, QC Sample No: BF05514 (BF05840, BF05841, BF05842, BF05843, BF05844)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	92	92	0.0	98	98	0.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	91	96	5.3	101	100	1.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	88	92	4.4	110	108	1.8	30 - 150	30
% TCMX (Surrogate Rec)	94	102	105	2.9	99	98	1.0	30 - 150	30

QA/QC Batch 240515, QC Sample No: BF05696 (BF05845, BF05846, BF05847)

Semivolatiles - Ground Water

2-Methylnaphthalene	ND	96	93	3.2				30 - 130	20
Acenaphthene	ND	96	93	3.2				30 - 130	20
Acenaphthylene	ND	98	95	3.1				30 - 130	20
Anthracene	ND	96	93	3.2				30 - 130	20
Benz(a)anthracene	0.090	99	96	3.1				30 - 130	20
Benzo(a)pyrene	ND	91	89	2.2				30 - 130	20
Benzo(b)fluoranthene	ND	102	101	1.0				30 - 130	20
Benzo(ghi)perylene	ND	111	105	5.6				30 - 130	20
Benzo(k)fluoranthene	ND	97	96	1.0				30 - 130	20
Chrysene	ND	102	97	5.0				30 - 130	20
Dibenz(a,h)anthracene	ND	106	100	5.8				30 - 130	20
Fluoranthene	ND	104	101	2.9				30 - 130	20
Fluorene	ND	99	97	2.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	111	105	5.6				30 - 130	20
Naphthalene	ND	91	89	2.2				30 - 130	20
Phenanthrene	ND	98	95	3.1				30 - 130	20
Pyrene	ND	102	99	3.0				30 - 130	20
% 2-Fluorobiphenyl	87	93	93	0.0				30 - 130	20
% Nitrobenzene-d5	117	80	78	2.5				30 - 130	20
% Terphenyl-d14	109	109	112	2.7				30 - 130	20

QA/QC Data

SDG I.D.: GBF05840

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

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 240483, QC Sample No: BF05844 (BF05840, BF05841, BF05842, BF05843, BF05844)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	64	78	19.7	71	41	53.6	60 - 120	30	m,r
% n-Pentacosane	53	95	97	2.1	92	57	47.0	50 - 150	30	r

QA/QC Batch 240652, QC Sample No: BF05844 (BF05840, BF05841, BF05842, BF05843, BF05844)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	107	108	0.9	104	102	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	93	94	1.1	94	94	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	105	102	2.9	101	103	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	100	100	0.0	95	96	1.0	70 - 130	30	
1,1-Dichloroethane	ND	99	97	2.0	97	98	1.0	70 - 130	30	
1,1-Dichloroethene	ND	95	97	2.1	77	77	0.0	70 - 130	30	
1,1-Dichloropropene	ND	92	96	4.3	97	99	2.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	104	109	4.7	109	109	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	106	104	1.9	103	103	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	98	104	5.9	107	109	1.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	106	108	1.9	109	109	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	120	112	6.9	104	111	6.5	70 - 130	30	
1,2-Dibromoethane	ND	100	99	1.0	94	98	4.2	70 - 130	30	
1,2-Dichlorobenzene	ND	106	106	0.0	106	108	1.9	70 - 130	30	
1,2-Dichloroethane	ND	94	96	2.1	90	92	2.2	70 - 130	30	
1,2-Dichloropropane	ND	100	100	0.0	98	101	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	104	106	1.9	110	109	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	104	107	2.8	108	108	0.0	70 - 130	30	
1,3-Dichloropropane	ND	104	102	1.9	103	102	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	105	108	2.8	108	110	1.8	70 - 130	30	
2,2-Dichloropropane	ND	95	95	0.0	93	93	0.0	70 - 130	30	
2-Chlorotoluene	ND	109	108	0.9	108	109	0.9	70 - 130	30	
2-Hexanone	ND	92	91	1.1	79	81	2.5	70 - 130	30	
2-Isopropyltoluene	ND	106	109	2.8	110	110	0.0	70 - 130	30	
4-Chlorotoluene	ND	102	104	1.9	110	108	1.8	70 - 130	30	
4-Methyl-2-pentanone	ND	97	98	1.0	89	92	3.3	70 - 130	30	
Acetone	ND	54	51	5.7	41	45	9.3	70 - 130	30	l,m
Acrylonitrile	ND	94	93	1.1	89	91	2.2	70 - 130	30	
Benzene	ND	96	97	1.0	97	98	1.0	70 - 130	30	
Bromobenzene	ND	107	106	0.9	108	107	0.9	70 - 130	30	
Bromochloromethane	ND	98	94	4.2	93	94	1.1	70 - 130	30	
Bromodichloromethane	ND	100	100	0.0	94	98	4.2	70 - 130	30	
Bromoform	ND	111	109	1.8	94	97	3.1	70 - 130	30	
Bromomethane	ND	105	100	4.9	60	64	6.5	70 - 130	30	m
Carbon Disulfide	ND	93	93	0.0	79	78	1.3	70 - 130	30	
Carbon tetrachloride	ND	98	98	0.0	95	96	1.0	70 - 130	30	
Chlorobenzene	ND	103	104	1.0	104	106	1.9	70 - 130	30	
Chloroethane	ND	102	100	2.0	<40	<40	NC	70 - 130	30	m
Chloroform	ND	98	91	7.4	93	92	1.1	70 - 130	30	
Chloromethane	ND	95	93	2.1	90	94	4.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	97	96	1.0	95	98	3.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	99	100	1.0	97	99	2.0	70 - 130	30	
Dibromochloromethane	ND	109	107	1.9	100	102	2.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBF05840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Dibromomethane	ND	96	97	1.0	93	95	2.1	70 - 130	30	
Dichlorodifluoromethane	ND	89	93	4.4	89	91	2.2	70 - 130	30	
Ethylbenzene	ND	98	101	3.0	104	103	1.0	70 - 130	30	
Hexachlorobutadiene	ND	93	105	12.1	109	110	0.9	70 - 130	30	
Isopropylbenzene	ND	109	109	0.0	109	109	0.0	70 - 130	30	
m&p-Xylene	ND	98	101	3.0	103	102	1.0	70 - 130	30	
Methyl ethyl ketone	ND	71	72	1.4	68	71	4.3	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	94	94	0.0	95	96	1.0	70 - 130	30	
Methylene chloride	ND	90	89	1.1	85	87	2.3	70 - 130	30	
Naphthalene	ND	111	109	1.8	107	108	0.9	70 - 130	30	
n-Butylbenzene	ND	96	109	12.7	111	111	0.0	70 - 130	30	
n-Propylbenzene	ND	104	108	3.8	110	108	1.8	70 - 130	30	
o-Xylene	ND	106	110	3.7	105	106	0.9	70 - 130	30	
p-Isopropyltoluene	ND	100	107	6.8	110	109	0.9	70 - 130	30	
sec-Butylbenzene	ND	101	106	4.8	110	109	0.9	70 - 130	30	
Styrene	ND	104	105	1.0	103	104	1.0	70 - 130	30	
tert-Butylbenzene	ND	110	110	0.0	110	109	0.9	70 - 130	30	
Tetrachloroethene	ND	95	101	6.1	106	104	1.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	92	91	1.1	92	93	1.1	70 - 130	30	
Toluene	ND	96	97	1.0	98	100	2.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	94	95	1.1	94	92	2.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	98	97	1.0	94	95	1.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	115	110	4.4	98	101	3.0	70 - 130	30	
Trichloroethene	ND	97	99	2.0	97	97	0.0	70 - 130	30	
Trichlorofluoromethane	ND	95	96	1.0	47	48	2.1	70 - 130	30	m
Trichlorotrifluoroethane	ND	87	93	6.7	77	74	4.0	70 - 130	30	
Vinyl chloride	ND	104	103	1.0	96	98	2.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	103	101	2.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	96	97	98	1.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	94	98	100	2.0	99	99	0.0	70 - 130	30	
% Toluene-d8	98	100	102	2.0	101	102	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 240477, QC Sample No: BF05844 (BF05842, BF05843, BF05844)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	81	78	3.8	79	78	1.3	30 - 130	30	
Acenaphthene	ND	88	84	4.7	85	82	3.6	30 - 130	30	
Acenaphthylene	ND	81	82	1.2	85	82	3.6	30 - 130	30	
Anthracene	ND	83	82	1.2	63	60	4.9	30 - 130	30	
Benz(a)anthracene	ND	91	84	8.0	55	52	5.6	30 - 130	30	
Benzo(a)pyrene	ND	77	74	4.0	56	53	5.5	30 - 130	30	
Benzo(b)fluoranthene	ND	87	77	12.2	57	54	5.4	30 - 130	30	
Benzo(ghi)perylene	ND	86	84	2.4	69	72	4.3	30 - 130	30	
Benzo(k)fluoranthene	ND	82	80	2.5	84	84	0.0	30 - 130	30	
Chrysene	ND	90	88	2.2	61	58	5.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	86	84	2.4	82	84	2.4	30 - 130	30	
Fluoranthene	ND	88	88	0.0	NC	NC	NC	30 - 130	30	
Fluorene	ND	85	89	4.6	88	86	2.3	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	87	84	3.5	70	73	4.2	30 - 130	30	
Naphthalene	ND	82	84	2.4	81	80	1.2	30 - 130	30	
Phenanthrene	ND	87	85	2.3	NC	NC	NC	30 - 130	30	
Pyrene	ND	88	86	2.3	21	16	27.0	30 - 130	30	m

QA/QC Data

SDG I.D.: GBF05840

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 2-Fluorobiphenyl	73	84	85	1.2	83	78	6.2	30 - 130	30
% Nitrobenzene-d5	80	82	79	3.7	77	77	0.0	30 - 130	30
% Terphenyl-d14	83	96	99	3.1	97	88	9.7	30 - 130	30

Comment:

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

QA/QC Batch 240601, QC Sample No: BF06321 (BF05845, BF05847)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	87	88	1.1				40 - 140	20
PCB-1221	ND							40 - 140	20
PCB-1232	ND							40 - 140	20
PCB-1242	ND							40 - 140	20
PCB-1248	ND							40 - 140	20
PCB-1254	ND							40 - 140	20
PCB-1260	ND	88	96	8.7				40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	93	91	93	2.2				30 - 150	20
% TCMX (Surrogate Rec)	75	85	81	4.8				30 - 150	20

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
July 19, 2013

Sample Criteria Exceedences Report

GBF05840 - MAGU-DAS

Requested Criteria: GBM, RC, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF05840	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	3400	260	1000	1000	ug/Kg
BF05840	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	3400	260	1000	1000	ug/Kg
BF05840	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	4300	260	1000	1000	ug/Kg
BF05840	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	4500	260	1000	1000	ug/Kg
BF05840	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	4500	260	1000	1000	ug/Kg
BF05840	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	3800	260	1000	1000	ug/Kg
BF05840	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	3800	260	1000	1000	ug/Kg
BF05840	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1500	260	1000	1000	ug/Kg
BF05840	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1500	260	1000	1000	ug/Kg
BF05840	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.233	0.010	0.15	0.15	mg/L
BF05844	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1400	250	1000	1000	ug/Kg
BF05844	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1400	250	1000	1000	ug/Kg
BF05844	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1100	250	1000	1000	ug/Kg
BF05844	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1300	250	1000	1000	ug/Kg
BF05844	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1300	250	1000	1000	ug/Kg
BF05845	PB-WM	Lead	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.064	0.002	0.013	0.013	mg/L
BF05846	$8100SIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	1	0.10	0.3	0.3	ug/L
BF05846	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	18	0.020	0.3	0.3	ug/L
BF05846	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	20	0.020	0.3	0.3	ug/L
BF05846	$8100SIMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	7	0.020	0.3	0.3	ug/L
BF05846	$8100SIMR	Benzo(ghi)perylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	8	0.10	4.92	4.92	ug/L
BF05846	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	14	0.020	0.3	0.3	ug/L
BF05846	$8100SIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	2.4	0.010	0.01	0.01	ug/L
BF05846	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	45	0.070	0.077	0.077	ug/L

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGU-DAS

Project Location: MIDDLETOWN SEWER PROJE **Project Number:**

Laboratory Sample ID(s): BF05840, BF05841, BF05842, BF05843, BF05844, BF05845, BF05846, BF05847, BF05848

Sampling Date(s): 7/15/2013

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☑ 7470/7471	☐ 8081	☐ EPH	☐ TO15
☑ 8082	☐ 8151	☑ 8260	☑ 8270	☑ ETPH	☐ 9010/9012	☐ VPH	

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, ICP Narration, SVOA Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☑ Yes ☐ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Friday, July 19, 2013

Printed Name: Maryam Taylor

Position: Project Manager

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:(Waters)
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

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

QC Batch 240483 (Samples: BF05840, BF05841, BF05842, BF05843, BF05844): -----

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. (Ext. Petroleum HC)

QC Batch 240559 (Samples: BF05845, BF05846, BF05847): -----

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

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates. Both revoveries were within limits. No significant bias is suspected. (% n-Pentacosane)

Instrument: Au-fid1 07/16/13-2 (BF05841, BF05842, BF05843, BF05844)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 7/16/2013

Instrument: Au-fid84 07/16/13-2 (BF05840, BF05844)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Jeff Bucko
Position: Chemist
Date: 7/16/2013

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

Instrument: Au-fid84 07/17/13-2 (BF05844)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Jeff Bucko
Position: Chemist
Date: 7/17/2013

Instrument: Au-xl1 07/16/13-2 (BF05845, BF05846, BF05847)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 7/16/2013

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

QC (Site Specific)

---------- Sample No: BF05844, QA/QC Batch: 240483 ----------

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: Ext. Petroleum HC(41%)

All MS/MSD RPDs were less than 30% with the following exceptions: % n-Pentacosane(47.0%), Ext. Petroleum HC(53.6%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BF05401, QA/QC Batch: 240559 ----------

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: % n-Pentacosane(44.1%), Ext. Petroleum HC(46.8%)

Mercury Narration

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

Instrument: Merlin 07/16/13-1 (BF05840, BF05841, BF05842, BF05843, BF05844, BF05845, BF05847)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 7/16/2013

Instrument: Merlin 07/17/13-1 (BF05840, BF05841, BF05842, BF05843, BF05844)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 7/17/2013

QC (Site Specific)

---------- Sample No: BF05842, QA/QC Batch: 240876 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BF05847, QA/QC Batch: 240633 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

ICP Narration

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

QC Batch 240519 (Samples: BF05840, BF05841, BF05842, BF05843, BF05844): -----

The LCS and/or LCSD recovery is below range. A low bias is possible. (Selenium)

Instrument: Arcos 07/16/13-1 (BF05840, BF05841, BF05842, BF05843, BF05844)

The initial calibration met criteria.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/16/2013

Instrument: Blue 07/15/13-1 (BF05845, BF05846, BF05847)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/15/2013

Instrument: Blue 07/16/13-1 (BF05840, BF05841, BF05842, BF05843, BF05844, BF05845, BF05846, BF05847)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/16/2013

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

QC (Site Specific)

---------- Sample No: BF05847, QA/QC Batch: 240568 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BF05109, QA/QC Batch: 240312 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BF05754, QA/QC Batch: 240519 ----------

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

All LCSD recoveries were within 75 - 125 with the following exceptions: Selenium(74.1%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BF06123, QA/QC Batch: 240606 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PAH Narration

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

Instrument: Chem07 07/15/13-1 (BF05844)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.Initial Calibration Verification (CHEM07/BN_0703):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM07/0715_06-BN_0703):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/15/2013

Instrument: Chem09 07/15/13-1 (BF05840, BF05841, BF05842, BF05843, BF05844)

The DDT breakdown and benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM09/SV_0701):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Benzaldehyde (32%), Chrysene (21%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM09/0715_04-SV_0701):
93% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: 2-nitroaniline (35%)[30%], 3,3'-dichlorobenzidine (-54%)[30%], Aniline (34%)[30%], Atrazine (63%)[30%], Benzaldehyde (75%)[30%], Indeno(1,2,3-cd)pyrene (32%)[30%], Parathion (-36%)[30%]
The following compounds did not meet maximum % deviations: 3,3'-dichlorobenzidine (-54%)[40%], Atrazine (63%)[40%], Benzaldehyde (75%)[40%]
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/15/2013

Instrument: Chem19 07/16/13-1 (BF05840)

Initial Calibration Verification (CHEM19/BN_0715):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM19/0716_26-BN_0715):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: None.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/16/2013

QC (Site Specific)

---------- Sample No: BF05844, QA/QC Batch: 240477 ----------

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: Pyrene(21%)

All MSD recoveries were within 30 - 130 with the following exceptions: Pyrene(16%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BF05510, QA/QC Batch: 240228 ----------

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.

---------- Sample No: BF05696, QA/QC Batch: 240515 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PAHSIM Narration

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

Instrument: Chem04 07/17/13-1 (BF05845, BF05846, BF05847)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.
In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.Initial Calibration Verification (CHEM04/BNSIM_0714):
89% of target compounds met criteria.
The following compounds had %RSDs >20%: % 2,4,6-Tribromophenol (23%), Bis(2-ethylhexyl)phthalate (26%), Pentachloronitrobenzene (45%), Pentachlorophenol (46%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM04/0717_02-BNSIM_0714):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/17/2013

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

QC (Site Specific)

---------- Sample No: BF05844, QA/QC Batch: 240477 ----------

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: Pyrene(21%)

All MSD recoveries were within 30 - 130 with the following exceptions: Pyrene(16%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BF05510, QA/QC Batch: 240228 ----------

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.

---------- Sample No: BF05696, QA/QC Batch: 240515 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PCB Narration

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

Instrument: Au-ecd24 07/16/13-1 (BF05845, BF05847)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/16/2013

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

Instrument: Au-ecd7 07/16/13-1 (BF05840, BF05841, BF05842, BF05843, BF05844)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/16/2013

QC Comments: QC Batch 240601 07/15/13 (BF05845, BF05847)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

---------- Sample No: BF05514, QA/QC Batch: 240230 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BF06321, QA/QC Batch: 240601 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

SVOA Narration

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

QC Batch 240477 (Samples: BF05842, BF05843, BF05844): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (Pyrene)

QC Batch 240515 (Samples: BF05845, BF05846, BF05847): -----

A trace amount of an analyte was found in blank. Due to the concentration in the blank relative to the samples, no bias is suspected. (Benz(a)anthracene(BF05846))

Analyte was found in blank. A high bias is suspected. (Benz(a)anthracene(BF05845))

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

QC Comments: QC Batch 240228 07/12/13 (BF05840, BF05841)

Poor surrogate observed in the prep blank.

QC (Site Specific)

---------- Sample No: BF05844, QA/QC Batch: 240477 ----------

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: Pyrene(21%)

All MSD recoveries were within 30 - 130 with the following exceptions: Pyrene(16%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BF05510, QA/QC Batch: 240228 ----------

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.

---------- Sample No: BF05696, QA/QC Batch: 240515 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

VOA Narration

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

QC Batch 240652 (Samples: BF05840, BF05841, BF05842, BF05843, BF05844): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (Bromomethane, Chloroethane, Methyl ethyl ketone, Trichlorofluoromethane)

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

QC Batch 240801 (Samples: BF05845, BF05846, BF05847, BF05848): -----

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

Instrument: Chem02 07/15/13-1 (BF05845, BF05846, BF05847, BF05848)

Initial Calibration Verification (CHEM02/RPP_0708):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromoform (23%), Methylene Chloride (24%), trans-1,4-Dichloro-2-butene (21%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM02/0715P02-RPP_0708):
99% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: Methyl Ethyl Ketone (-34%)[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.

Printed Name Veronica Widener
Position: Chemist
Date: 7/15/2013

Instrument: Chem18 07/15/13-1 (BF05840, BF05841, BF05842, BF05843, BF05844)

Initial Calibration Verification (CHEM18/RCPS_0712N2):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0715M02-RCPS_0712N2):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF05840

Printed Name	Caleb Githinji
Position:	Chemist
Date:	7/15/2013

QC (Site Specific)

---------- Sample No: BF05844, QA/QC Batch: 240652 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(54%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(51%)

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(41%), Bromomethane(60%), Chloroethane(<40%), Methyl ethyl ketone(68%), Trichlorofluoromethane(47%)

All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(45%), Bromomethane(64%), Chloroethane(<40%), Trichlorofluoromethane(48%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BF04362, QA/QC Batch: 240801 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(133%)

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.

Temperature Narration

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

Cooler: Yes [✓] No [ ]
Coolant: IPK [ ] ICE [✓] N [ ]

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 0°C Pg 1 of 1

Data Delivery:
[ ] Fax #:
[✓] Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire Inc.
Address: 2080 Silas Deane Hwy
Rocky Hill CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:
Phone #: 8605633158
Fax #:

Client Sample - Information - Identification

Sampler's Signature: Cindy Gj Date: 7-15-13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs - 8260	PAHs - 8270	CT ETPH	Total RCRA 8 Metals	SPLP RCRA 8 Metals	Total LEAD	Dissolved RCRA 8 Metals	Dissolved LEAD	PCBs - 8082				Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [✓] HCl	GL Amber 1000ml [1] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 1250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
05840	PSGP-59 1'-4'	S	7/15/13	5:10am	X	X	X	X	X				X				1/2	2								
05841	PSGP-60 5'-10'	↓	↓	5:55am	↓	↓	↓	X	X				X				↓	↓								
05842	PSGP-61 1'-5'	↓	↓	6:20am	↓	↓	↓	X	X				X				↓	↓								
05843	PSGP-62 1'-5'	↓	↓	7:00am	↓	↓	↓	X	X				X				↓	↓								
05844	PSGP-63 1'-5'	↓	↓	8:40am	↓	↓	↓	X	X				X				↓	↓								
05845	PSGP-61 GW	GW	↓	8:05am	↓	↓	↓	X			X		X							3	4			2		
05846	PSGP-43 GW	GW	↓	9:50am	↓	↓	↓			X		X								3	3			2		
05847	FB-2	↓	↓	10:05am	↓	↓	↓	X			X		X							3	4			2		
05848	TB-4	↓	↓	-	↓															2						

Relinquished by:	Accepted by:	Date:	Time:
Cindy Gj	[signature]	7/15/13	10:40

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 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

PHOENIX
Environmental Laboratories, Inc.

Friday, July 19, 2013

Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: MIDDLETOWN SEWER PROJECT
Sample ID#s: BF04980 - BF04993

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	6:55
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04980

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-42 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	4.90	0.35	mg/Kg	07/15/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/15/13	LK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	92		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	53	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	81		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-42 1-5 FT

Phoenix I.D.: BF04980

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	34	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-42 1-5 FT

Phoenix I.D.: BF04980

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	95		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	99		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	99		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	101		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	89		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	87		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04980

Client ID: PSGP-42 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	7:10
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04981

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-42 9-13 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	5.55	0.39	mg/Kg	07/15/13	LK	SW6010
SPLP Lead	0.035	0.010	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	90		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	81		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-42 9-13 FT

Phoenix I.D.: BF04981

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	36	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/14/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	95		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	98		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	98		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	90		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	83		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	104		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04981

Client ID: PSGP-42 9-13 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	7:30
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04982

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-42 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	4.30	0.38	mg/Kg	07/15/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	90		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	55	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	77		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-42 15-20 FT

Phoenix I.D.: BF04982

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	35	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-42 15-20 FT

Phoenix I.D.: BF04982

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	98		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	98		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	98		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	ND	260	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	100		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	90		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	113		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04982

Client ID: PSGP-42 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	6:00
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04983

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	6.70	0.33	mg/Kg	07/15/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	91		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	74		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 2-5 FT

Phoenix I.D.: BF04983

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	35	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 2-5 FT

Phoenix I.D.: BF04983

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	97		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	98		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	99		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Chrysene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluoranthene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Phenanthrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
Pyrene	ND	250	ug/Kg	07/12/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	92		%	07/12/13	KCA	30 - 130 %
% Nitrobenzene-d5	84		%	07/12/13	KCA	30 - 130 %
% Terphenyl-d14	95		%	07/12/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04983

Client ID: PSGP-44 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	6:10
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04984

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 8-12 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	5.66	0.37	mg/Kg	07/15/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	91		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	55	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	85		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 8-12 FT

Phoenix I.D.: BF04984

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	36	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 8-12 FT

Phoenix I.D.: BF04984

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	96		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	101		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	98		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthylene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Chrysene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Fluorene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Naphthalene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Phenanthrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	83		%	07/14/13	KCA	30 - 130 %
% Nitrobenzene-d5	75		%	07/14/13	KCA	30 - 130 %
% Terphenyl-d14	101		%	07/14/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04984

Client ID: PSGP-44 8-12 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	6:15
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04985

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	5.16	0.40	mg/Kg	07/15/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	89		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	56	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	79		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 15-20 FT

Phoenix I.D.: BF04985

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	31	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	37	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.7	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-44 15-20 FT

Phoenix I.D.: BF04985

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	6.2	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	99		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	101		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	98		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthylene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Chrysene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Fluorene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Naphthalene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Phenanthrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	87		%	07/14/13	KCA	30 - 130 %
% Nitrobenzene-d5	80		%	07/14/13	KCA	30 - 130 %
% Terphenyl-d14	104		%	07/14/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04985

Client ID: PSGP-44 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	5:30
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04986

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-57 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	4.71	0.36	mg/Kg	07/15/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	91		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	55	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	70		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.4	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-57 1-5 FT

Phoenix I.D.: BF04986

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	7	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	37	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	37	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	44	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	4.4	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	44	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-57 1-5 FT

Phoenix I.D.: BF04986

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	7.4	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	99		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	97		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	99		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Anthracene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Chrysene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Fluoranthene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Phenanthrene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Pyrene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	88		%	07/14/13	KCA	30 - 130 %
% Nitrobenzene-d5	81		%	07/14/13	KCA	30 - 130 %
% Terphenyl-d14	107		%	07/14/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BF04986

Client ID: PSGP-57 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	8:00
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04987

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-58 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	5.41	0.38	mg/Kg	07/15/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	91		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	81		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-58 2-5 FT

Phoenix I.D.: BF04987

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	35	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-58 2-5 FT

Phoenix I.D.: BF04987

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	92		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	101		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	95		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthylene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Anthracene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Chrysene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Fluoranthene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Fluorene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Naphthalene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Phenanthrene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
Pyrene	ND	250	ug/Kg	07/14/13	KCA	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	82		%	07/14/13	KCA	30 - 130 %
% Nitrobenzene-d5	76		%	07/14/13	KCA	30 - 130 %
% Terphenyl-d14	97		%	07/14/13	KCA	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: PSGP-58 2-5 FT

Phoenix I.D.: BF04987

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	8:40
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04988

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-71 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	07/13/13	LK	SW6010
Arsenic	2.2	0.7	mg/Kg	07/15/13	LK	SW6010
Barium	42.0	0.37	mg/Kg	07/15/13	LK	SW6010
Cadmium	0.68	0.37	mg/Kg	07/15/13	LK	SW6010
Chromium	10.1	0.37	mg/Kg	07/15/13	LK	SW6010
Mercury	0.11	0.07	mg/Kg	07/16/13	RS	SW-7471
Lead	73.2	0.37	mg/Kg	07/15/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	07/15/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Arsenic	0.010	0.004	mg/L	07/15/13	EK	SW6010
SPLP Barium	0.100	0.010	mg/L	07/15/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/15/13	EK	SW6010
SPLP Chromium	0.012	0.010	mg/L	07/15/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	07/15/13	RS	1312/SW7470
SPLP Lead	0.202	0.010	mg/L	07/15/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	91		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
Mercury Digestion	Completed			07/15/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/15/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	260	54	mg/Kg	07/16/13	JRB	CT ETPH/8015
Identification	**		mg/Kg	07/16/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-71 2-5 FT

Phoenix I.D.: BF04988

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
QA/QC Surrogates						
% n-Pentacosane	107		%	07/16/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	07/14/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2-Dibromoethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/14/13	H/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/14/13	H/J	SW8260
Acetone	ND	35	ug/Kg	07/14/13	H/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Benzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Bromoform	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Bromomethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Chloroethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Chloroform	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Chloromethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	07/14/13	H/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-71 2-5 FT

Phoenix I.D.: BF04988

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Hexachlorobutadiene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	07/14/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/14/13	H/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Naphthalene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
o-Xylene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Styrene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/14/13	H/J	SW8260
Toluene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/14/13	H/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	07/14/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	95		%	07/14/13	H/J	70 - 130 %
% Bromofluorobenzene	82		%	07/14/13	H/J	70 - 130 %
% Dibromofluoromethane	95		%	07/14/13	H/J	70 - 130 %
% Toluene-d8	93		%	07/14/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthylene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Anthracene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Benz(a)anthracene	1500	510	ug/Kg	07/14/13	KCA	SW 8270
Benzo(a)pyrene	1400	510	ug/Kg	07/14/13	KCA	SW 8270
Benzo(b)fluoranthene	2300	510	ug/Kg	07/14/13	KCA	SW 8270
Benzo(ghi)perylene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Benzo(k)fluoranthene	940	510	ug/Kg	07/14/13	KCA	SW 8270
Chrysene	1600	510	ug/Kg	07/14/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Fluoranthene	2400	510	ug/Kg	07/14/13	KCA	SW 8270
Fluorene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Naphthalene	ND	510	ug/Kg	07/14/13	KCA	SW 8270
Phenanthrene	1900	510	ug/Kg	07/14/13	KCA	SW 8270
Pyrene	2000	510	ug/Kg	07/14/13	KCA	SW 8270
QA/QC Surrogates						

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: FMGP-71 2-5 FT

Phoenix I.D.: BF04988

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorobiphenyl	101		%	07/14/13	KCA	30 - 130 %
% Nitrobenzene-d5	80		%	07/14/13	KCA	30 - 130 %
% Terphenyl-d14	98		%	07/14/13	KCA	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	8:55
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04989

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-72 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	07/15/13	LK	SW6010
Arsenic	1.8	0.7	mg/Kg	07/15/13	LK	SW6010
Barium	67.8	0.35	mg/Kg	07/15/13	LK	SW6010
Cadmium	0.42	0.35	mg/Kg	07/15/13	LK	SW6010
Chromium	10.8	0.35	mg/Kg	07/15/13	LK	SW6010
Mercury	0.28	0.07	mg/Kg	07/16/13	RS	SW-7471
Lead	112	0.35	mg/Kg	07/15/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	07/15/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Arsenic	0.006	0.004	mg/L	07/15/13	EK	SW6010
SPLP Barium	0.091	0.010	mg/L	07/15/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/15/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Mercury	0.0005	0.0004	mg/L	07/15/13	RS	1312/SW7470
SPLP Lead	0.113	0.010	mg/L	07/15/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	90		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
Mercury Digestion	Completed			07/15/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/15/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-72 2-5 FT

Phoenix I.D.: BF04989

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
QA/QC Surrogates						
% n-Pentacosane	108		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	07/14/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	07/14/13	H/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	07/14/13	H/J	SW8260
Acetone	ND	34	ug/Kg	07/14/13	H/J	SW8260
Acrylonitrile	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Benzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Bromoform	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Bromomethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Chloroethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Chloroform	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Chloromethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	07/14/13	H/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-72 2-5 FT

Phoenix I.D.: BF04989

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Hexachlorobutadiene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	07/14/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	07/14/13	H/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Naphthalene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
o-Xylene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Styrene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	07/14/13	H/J	SW8260
Toluene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	07/14/13	H/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	07/14/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	07/14/13	H/J	70 - 130 %
% Bromofluorobenzene	87		%	07/14/13	H/J	70 - 130 %
% Dibromofluoromethane	96		%	07/14/13	H/J	70 - 130 %
% Toluene-d8	95		%	07/14/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthylene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(b)fluoranthene	310	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Chrysene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Fluoranthene	450	260	ug/Kg	07/14/13	KCA	SW 8270
Fluorene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Naphthalene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Phenanthrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Pyrene	410	260	ug/Kg	07/14/13	KCA	SW 8270
QA/QC Surrogates						

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-72 2-5 FT

Phoenix I.D.: BF04989

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorobiphenyl	86		%	07/14/13	KCA	30 - 130 %
% Nitrobenzene-d5	77		%	07/14/13	KCA	30 - 130 %
% Terphenyl-d14	101		%	07/14/13	KCA	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 19, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	9:25
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04990

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP 73 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	07/15/13	LK	SW6010
Arsenic	4.4	0.8	mg/Kg	07/15/13	LK	SW6010
Barium	65.7	0.41	mg/Kg	07/15/13	LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	07/15/13	LK	SW6010
Chromium	12.3	0.41	mg/Kg	07/15/13	LK	SW6010
Mercury	0.19	0.07	mg/Kg	07/16/13	RS	SW-7471
Lead	78.4	0.41	mg/Kg	07/15/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	07/15/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Arsenic	0.010	0.004	mg/L	07/15/13	EK	SW6010
SPLP Barium	0.098	0.010	mg/L	07/15/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/15/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Mercury	0.0005	0.0004	mg/L	07/15/13	RS	1312/SW7470
SPLP Lead	0.118	0.010	mg/L	07/15/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	87		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
Mercury Digestion	Completed			07/15/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/15/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	56	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP 73 1-5 FT

Phoenix I.D.: BF04990

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
QA/QC Surrogates						
% n-Pentacosane	79		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromoethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	37	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.7	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP 73 1-5 FT

Phoenix I.D.: BF04990

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Hexachlorobutadiene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	07/14/13	R/J	SW8260
Toluene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	89		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	100		%	07/14/13	R/J	70 - 130 %
% Toluene-d8	96		%	07/14/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthylene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Chrysene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Fluoranthene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Fluorene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Naphthalene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Phenanthrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
Pyrene	ND	260	ug/Kg	07/14/13	KCA	SW 8270
QA/QC Surrogates						

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: FMGP 73 1-5 FT

Phoenix I.D.: BF04990

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorobiphenyl	82		%	07/14/13	KCA	30 - 130 %
% Nitrobenzene-d5	71		%	07/14/13	KCA	30 - 130 %
% Terphenyl-d14	105		%	07/14/13	KCA	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	10:05
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04991

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-74 5-10 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	07/15/13	LK	SW6010
Arsenic	6.3	0.8	mg/Kg	07/15/13	LK	SW6010
Barium	76.3	0.41	mg/Kg	07/15/13	LK	SW6010
Cadmium	0.48	0.41	mg/Kg	07/15/13	LK	SW6010
Chromium	13.8	0.41	mg/Kg	07/15/13	LK	SW6010
Mercury	1.76	0.07	mg/Kg	07/16/13	RS	SW-7471
Lead	746	4.1	mg/Kg	07/16/13	LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	07/15/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	07/15/13	EK	SW6010
SPLP Arsenic	0.026	0.004	mg/L	07/15/13	EK	SW6010
SPLP Barium	0.347	0.010	mg/L	07/15/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	07/15/13	EK	SW6010
SPLP Chromium	0.026	0.010	mg/L	07/15/13	EK	SW6010
SPLP Mercury	0.0026	0.0004	mg/L	07/15/13	RS	1312/SW7470
SPLP Lead	0.545	0.010	mg/L	07/15/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	07/15/13	EK	SW6010
SPLP Metals Digestion	Completed			07/15/13	X/X	SW846-3005
Percent Solid	83		%	07/12/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			07/12/13	BJ/FV	SW3545
Extraction of CT ETPH	Completed			07/12/13	BS/F	3545
Mercury Digestion	Completed			07/16/13	X/X	SW7471
SPLP Digestion Mercury	Completed			07/15/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			07/12/13	X	EPA 1312
Total Metals Digest	Completed			07/12/13	Z/AG	SW846 - 3050
Field Extraction	Completed			07/12/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	60	mg/Kg	07/15/13	KCA	CT ETPH/8015
Identification	ND		mg/Kg	07/15/13	KCA	CT ETPH/8015

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-74 5-10 FT

Phoenix I.D.: BF04991

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
QA/QC Surrogates						
% n-Pentacosane	78		%	07/15/13	KCA	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,1,1-Trichloroethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.1	ug/Kg	07/15/13	H/J	SW8260
1,1,2-Trichloroethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloroethene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,1-Dichloropropene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2,3-Trichloropropane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2-Dibromoethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichlorobenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloroethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,2-Dichloropropane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichlorobenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,3-Dichloropropane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
1,4-Dichlorobenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
2,2-Dichloropropane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
2-Chlorotoluene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
2-Hexanone	ND	34	ug/Kg	07/15/13	H/J	SW8260
2-Isopropyltoluene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
4-Chlorotoluene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
4-Methyl-2-pentanone	ND	34	ug/Kg	07/15/13	H/J	SW8260
Acetone	ND	41	ug/Kg	07/15/13	H/J	SW8260
Acrylonitrile	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Benzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Bromobenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Bromochloromethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Bromodichloromethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Bromoform	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Bromomethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Carbon Disulfide	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Carbon tetrachloride	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Chlorobenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Chloroethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Chloroform	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Chloromethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Dibromochloromethane	ND	4.1	ug/Kg	07/15/13	H/J	SW8260
Dibromomethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Dichlorodifluoromethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Ethylbenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FMGP-74 5-10 FT

Phoenix I.D.: BF04991

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Hexachlorobutadiene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Isopropylbenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
m&p-Xylene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Methyl Ethyl Ketone	ND	41	ug/Kg	07/15/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	07/15/13	H/J	SW8260
Methylene chloride	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Naphthalene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
n-Butylbenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
n-Propylbenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
o-Xylene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
p-Isopropyltoluene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
sec-Butylbenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Styrene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
tert-Butylbenzene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Tetrachloroethene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	07/15/13	H/J	SW8260
Toluene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Total Xylenes	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	07/15/13	H/J	SW8260
Trichloroethene	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Trichlorofluoromethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Trichlorotrifluoroethane	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
Vinyl chloride	ND	6.8	ug/Kg	07/15/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	07/15/13	H/J	70 - 130 %
% Bromofluorobenzene	85		%	07/15/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	07/15/13	H/J	70 - 130 %
% Toluene-d8	97		%	07/15/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Acenaphthylene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Anthracene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Benz(a)anthracene	380	280	ug/Kg	07/14/13	KCA	SW 8270
Benzo(a)pyrene	370	280	ug/Kg	07/14/13	KCA	SW 8270
Benzo(b)fluoranthene	420	280	ug/Kg	07/14/13	KCA	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Chrysene	330	280	ug/Kg	07/14/13	KCA	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Fluoranthene	720	280	ug/Kg	07/14/13	KCA	SW 8270
Fluorene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Naphthalene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Phenanthrene	ND	280	ug/Kg	07/14/13	KCA	SW 8270
Pyrene	730	280	ug/Kg	07/14/13	KCA	SW 8270
QA/QC Surrogates						

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: FMGP-74 5-10 FT

Phoenix I.D.: BF04991

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% 2-Fluorobiphenyl	82		%	07/14/13	KCA	30 - 130 %
% Nitrobenzene-d5	77		%	07/14/13	KCA	30 - 130 %
% Terphenyl-d14	107		%	07/14/13	KCA	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	0:00
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04992

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-3 LOW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/12/13		E160.3
Field Extraction	Completed			07/12/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-3 LOW

Phoenix I.D.: BF04992

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	30	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	07/14/13	R/J	SW8260
Toluene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	99		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	100		%	07/14/13	R/J	70 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: TB-3 LOW

Phoenix I.D.: BF04992

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	100		%	07/14/13	R/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	07/12/13	0:00
Location Code:	MAGU-DAS	Received by:	LB	07/12/13	10:57
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBF04980
Phoenix ID: BF04993

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-3 HIGH

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/12/13		E160.3
Field Extraction	Completed			07/12/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	07/14/13	R/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	07/14/13	R/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	07/14/13	R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	07/14/13	R/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	07/14/13	R/J	SW8260
4-Chlorotoluene	ND	250	ug/Kg	07/14/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-3 HIGH

Phoenix I.D.: BF04993

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	07/14/13	R/J	SW8260
Acetone	ND	5000	ug/Kg	07/14/13	R/J	SW8260
Acrylonitrile	ND	500	ug/Kg	07/14/13	R/J	SW8260
Benzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Bromobenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Bromoform	ND	250	ug/Kg	07/14/13	R/J	SW8260
Bromomethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	07/14/13	R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	07/14/13	R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Chloroethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Chloroform	ND	250	ug/Kg	07/14/13	R/J	SW8260
Chloromethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	07/14/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Dibromomethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	07/14/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	07/14/13	R/J	SW8260
Methylene chloride	ND	500	ug/Kg	07/14/13	R/J	SW8260
Naphthalene	ND	250	ug/Kg	07/14/13	R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
o-Xylene	ND	250	ug/Kg	07/14/13	R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	07/14/13	R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Styrene	ND	250	ug/Kg	07/14/13	R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	07/14/13	R/J	SW8260
Toluene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Total Xylenes	ND	250	ug/Kg	07/14/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	07/14/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	07/14/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	07/14/13	R/J	SW8260
Trichloroethene	ND	250	ug/Kg	07/14/13	R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	07/14/13	R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	07/14/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	07/14/13	R/J	70 - 130 %
% Bromofluorobenzene	98		%	07/14/13	R/J	70 - 130 %
% Dibromofluoromethane	97		%	07/14/13	R/J	70 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Client ID: TB-3 HIGH

Phoenix I.D.: BF04993

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	98		%	07/14/13	R/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 19, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 19, 2013

QA/QC Data

SDG I.D.: GBF04980

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 239629, QC Sample No: BD96605 (BF04980)												
ICP Metals - SPLP Extraction												
Lead	BRL	<0.010	<0.010	NC	91.6	92.0	0.4	91.9	100	8.4	75 - 125	20
QA/QC Batch 240307, QC Sample No: BF04361 (BF04988, BF04989, BF04990, BF04991)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	107	104	2.8	104	106	1.9	70 - 130	20
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 240190, QC Sample No: BF04980 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989)												
ICP Metals - Soil												
Arsenic	BRL	1.1	1.00	NC	83.7	89.1	6.2	80.5	81.9	1.7	75 - 125	30
Barium	BRL	28.7	42.2	38.1	92.6	97.8	5.5	95.2	98.5	3.4	75 - 125	30
Cadmium	BRL	<0.35	<0.35	NC	86.1	96.9	11.8	82.8	84.8	2.4	75 - 125	30
Chromium	BRL	9.35	9.89	5.60	93.6	101	7.6	88.6	89.6	1.1	75 - 125	30
Lead	BRL	4.94	5.38	8.50	88.1	93.2	5.6	83.8	85.4	1.9	75 - 125	30
Selenium	BRL	<1.4	<1.4	NC	104	98.8	5.1	92.2	104	12.0	75 - 125	30
Silver	BRL	<0.35	<0.35	NC	89.6	96.9	7.8	88.2	89.5	1.5	75 - 125	30
QA/QC Batch 240311, QC Sample No: BF04987 (BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989, BF04990, BF04991)												
ICP Metals - SPLP Extraction												
Arsenic	BRL	0.007	<0.004	NC	88.2	91.4	3.6	90.1	89.2	1.0	75 - 125	20
Barium	BRL	0.015	0.015	NC	88.3	91.3	3.3	90.3	89.0	1.5	75 - 125	20
Cadmium	BRL	<0.005	<0.005	NC	88.7	91.9	3.5	90.4	89.0	1.6	75 - 125	20
Chromium	BRL	<0.010	<0.010	NC	87.7	90.4	3.0	89.4	88.4	1.1	75 - 125	20
Lead	BRL	<0.010	<0.010	NC	88.1	90.9	3.1	89.8	88.4	1.6	75 - 125	20
Selenium	BRL	<0.020	<0.020	NC	90.3	93.9	3.9	92.8	92.1	0.8	75 - 125	20
Silver	BRL	<0.010	<0.010	NC	85.8	88.3	2.9	87.6	86.3	1.5	75 - 125	20
QA/QC Batch 240630, QC Sample No: BF05245 (BF04991)												
Mercury - Soil	BRL	<0.09	<0.07	NC	105	103	1.9	113	117	3.5	70 - 130	30
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 240191, QC Sample No: BF05264 (BF04990, BF04991)												
ICP Metals - Soil												
Arsenic	BRL	3.3	3.27	NC	80.4	88.2	9.3	75.9	78.3	3.1	75 - 125	30
Barium	BRL	56.6	58.2	2.80	88.4	97.6	9.9	94.1	99.5	5.6	75 - 125	30
Cadmium	BRL	0.45	0.47	NC	85.0	91.3	7.1	78.2	80.1	2.4	75 - 125	30
Chromium	BRL	10.6	11.7	9.90	90.7	98.2	7.9	81.8	85.0	3.8	75 - 125	30
Lead	BRL	83.6	86.8	3.80	86.3	94.2	8.8	80.9	83.8	3.5	75 - 125	30
Selenium	BRL	<1.5	<1.5	NC	90.1	94.9	5.2	101	98.0	3.0	75 - 125	30
Silver	BRL	<0.38	<0.38	NC	85.6	91.2	6.3	81.8	84.1	2.8	75 - 125	30

QA/QC Data

SDG I.D.: GBF04980

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 240305, QC Sample No: BF05264 (BF04988, BF04989, BF04990)												
Mercury - Soil	BRL	0.23	0.18	NC	102	101	1.0	94.1	101	7.1	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

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 19, 2013

QA/QC Data

SDG I.D.: GBF04980

QA/QC Batch 240005, QC Sample No: BF04743 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989, BF04990, BF04991)

Polynuclear Aromatic HC - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Methylnaphthalene	ND	83	81	2.4	87	89	2.3	30 - 130	30
Acenaphthene	ND	84	80	4.9	86	86	0.0	30 - 130	30
Acenaphthylene	ND	85	81	4.8	83	85	2.4	30 - 130	30
Anthracene	ND	85	80	6.1	88	87	1.1	30 - 130	30
Benz(a)anthracene	ND	88	80	9.5	93	83	11.4	30 - 130	30
Benzo(a)pyrene	ND	80	74	7.8	95	89	6.5	30 - 130	30
Benzo(b)fluoranthene	ND	89	86	3.4	120	105	13.3	30 - 130	30
Benzo(ghi)perylene	ND	92	76	19.0	85	82	3.6	30 - 130	30
Benzo(k)fluoranthene	ND	95	84	12.3	88	98	10.8	30 - 130	30
Chrysene	ND	89	85	4.6	99	90	9.5	30 - 130	30
Dibenz(a,h)anthracene	ND	91	80	12.9	84	85	1.2	30 - 130	30
Fluoranthene	ND	91	83	9.2	111	103	7.5	30 - 130	30
Fluorene	ND	96	90	6.5	97	98	1.0	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	93	80	15.0	86	86	0.0	30 - 130	30
Naphthalene	ND	81	78	3.8	81	82	1.2	30 - 130	30
Phenanthrene	ND	89	83	7.0	95	86	9.9	30 - 130	30
Pyrene	ND	90	83	8.1	109	95	13.7	30 - 130	30
% 2-Fluorobiphenyl	73	85	84	1.2	87	87	0.0	30 - 130	30
% Nitrobenzene-d5	64	76	74	2.7	76	78	2.6	30 - 130	30
% Terphenyl-d14	69	97	93	4.2	105	105	0.0	30 - 130	30

Comment:

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

QA/QC Batch 240452, QC Sample No: BF04986 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04990, BF04992, BF04993 (50X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	105	103	1.9	95	98	3.1	70 - 130	30
1,1,1-Trichloroethane	ND	101	98	3.0	106	104	1.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	96	93	3.2	96	96	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	104	101	2.9	97	99	2.0	70 - 130	30
1,1-Dichloroethane	ND	99	96	3.1	103	101	2.0	70 - 130	30
1,1-Dichloroethene	ND	100	98	2.0	106	103	2.9	70 - 130	30
1,1-Dichloropropene	ND	97	96	1.0	100	100	0.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	93	93	0.0	78	84	7.4	70 - 130	30
1,2,3-Trichloropropane	ND	97	93	4.2	94	96	2.1	70 - 130	30
1,2,4-Trichlorobenzene	ND	86	87	1.2	75	80	6.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	94	94	0.0	92	92	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	103	101	2.0	99	108	8.7	70 - 130	30
1,2-Dibromoethane	ND	102	98	4.0	97	100	3.0	70 - 130	30
1,2-Dichlorobenzene	ND	94	94	0.0	88	90	2.2	70 - 130	30

QA/QC Data

SDG I.D.: GBF04980

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloroethane	ND	101	99	2.0	100	101	1.0	70 - 130	30	
1,2-Dichloropropane	ND	98	97	1.0	99	98	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	95	93	2.1	95	94	1.1	70 - 130	30	
1,3-Dichlorobenzene	ND	93	93	0.0	86	89	3.4	70 - 130	30	
1,3-Dichloropropane	ND	100	97	3.0	97	98	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	92	90	2.2	85	87	2.3	70 - 130	30	
2,2-Dichloropropane	ND	101	99	2.0	95	95	0.0	70 - 130	30	
2-Chlorotoluene	ND	91	91	0.0	87	90	3.4	70 - 130	30	
2-Hexanone	ND	78	76	2.6	74	74	0.0	70 - 130	30	
2-Isopropyltoluene	ND	97	95	2.1	96	96	0.0	70 - 130	30	
4-Chlorotoluene	ND	91	91	0.0	87	90	3.4	70 - 130	30	
4-Methyl-2-pentanone	ND	102	100	2.0	104	105	1.0	70 - 130	30	
Acetone	ND	59	55	7.0	62	55	12.0	70 - 130	30	l,m
Acrylonitrile	ND	99	97	2.0	105	97	7.9	70 - 130	30	
Benzene	ND	98	96	2.1	99	99	0.0	70 - 130	30	
Bromobenzene	ND	97	95	2.1	95	95	0.0	70 - 130	30	
Bromochloromethane	ND	98	99	1.0	100	98	2.0	70 - 130	30	
Bromodichloromethane	ND	100	98	2.0	99	100	1.0	70 - 130	30	
Bromoform	ND	105	103	1.9	96	100	4.1	70 - 130	30	
Bromomethane	ND	102	100	2.0	99	97	2.0	70 - 130	30	
Carbon Disulfide	ND	97	95	2.1	104	100	3.9	70 - 130	30	
Carbon tetrachloride	ND	104	101	2.9	103	105	1.9	70 - 130	30	
Chlorobenzene	ND	98	97	1.0	92	95	3.2	70 - 130	30	
Chloroethane	ND	104	102	1.9	106	102	3.8	70 - 130	30	
Chloroform	ND	98	96	2.1	103	101	2.0	70 - 130	30	
Chloromethane	ND	111	108	2.7	107	105	1.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	100	100	0.0	101	99	2.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	98	95	3.1	93	95	2.1	70 - 130	30	
Dibromochloromethane	ND	100	100	0.0	96	99	3.1	70 - 130	30	
Dibromomethane	ND	99	98	1.0	98	99	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	129	127	1.6	108	107	0.9	70 - 130	30	
Ethylbenzene	ND	95	94	1.1	95	96	1.0	70 - 130	30	
Hexachlorobutadiene	ND	91	92	1.1	91	90	1.1	70 - 130	30	
Isopropylbenzene	ND	98	97	1.0	97	97	0.0	70 - 130	30	
m&p-Xylene	ND	96	95	1.0	92	93	1.1	70 - 130	30	
Methyl ethyl ketone	ND	64	65	1.6	68	64	6.1	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	95	93	2.1	98	98	0.0	70 - 130	30	
Methylene chloride	ND	88	86	2.3	85	83	2.4	70 - 130	30	
Naphthalene	ND	102	100	2.0	83	93	11.4	70 - 130	30	
n-Butylbenzene	ND	92	92	0.0	91	90	1.1	70 - 130	30	
n-Propylbenzene	ND	96	96	0.0	95	94	1.1	70 - 130	30	
o-Xylene	ND	100	100	0.0	95	96	1.0	70 - 130	30	
p-Isopropyltoluene	ND	95	94	1.1	95	94	1.1	70 - 130	30	
sec-Butylbenzene	ND	95	93	2.1	96	96	0.0	70 - 130	30	
Styrene	ND	97	95	2.1	91	92	1.1	70 - 130	30	
tert-Butylbenzene	ND	98	98	0.0	98	97	1.0	70 - 130	30	
Tetrachloroethene	ND	96	96	0.0	99	98	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	100	97	3.0	108	103	4.7	70 - 130	30	
Toluene	ND	96	95	1.0	90	90	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	100	99	1.0	101	99	2.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	101	98	3.0	91	95	4.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	102	101	1.0	85	89	4.6	70 - 130	30	
Trichloroethene	ND	101	99	2.0	99	99	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBF04980

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorofluoromethane	ND	105	103	1.9	109	106	2.8	70 - 130	30	
Trichlorotrifluoroethane	ND	103	103	0.0	107	103	3.8	70 - 130	30	
Vinyl chloride	ND	114	112	1.8	104	102	1.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	100	98	2.0	101	99	2.0	70 - 130	30	
% Bromofluorobenzene	98	100	100	0.0	102	101	1.0	70 - 130	30	
% Dibromofluoromethane	101	100	101	1.0	104	105	1.0	70 - 130	30	
% Toluene-d8	99	99	100	1.0	99	100	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 240145, QC Sample No: BF04987 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989, BF04990, BF04991)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	70	67	4.4	78	77	1.3	60 - 120	30	
% n-Pentacosane	80	75	73	2.7	83	84	1.2	50 - 150	30	

QA/QC Batch 240561, QC Sample No: BF04988 (BF04988, BF04989)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	106	105	0.9	105	106	0.9	70 - 130	30	
1,1,1-Trichloroethane	ND	96	93	3.2	98	93	5.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	103	107	3.8	104	105	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	99	102	3.0	96	97	1.0	70 - 130	30	
1,1-Dichloroethane	ND	100	97	3.0	100	98	2.0	70 - 130	30	
1,1-Dichloroethene	ND	98	96	2.1	74	74	0.0	70 - 130	30	
1,1-Dichloropropene	ND	98	96	2.1	99	99	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	108	109	0.9	110	109	0.9	70 - 130	30	
1,2,3-Trichloropropane	ND	103	109	5.7	107	106	0.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	104	102	1.9	110	106	3.7	70 - 130	30	
1,2,4-Trimethylbenzene	ND	110	109	0.9	113	108	4.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	108	112	3.6	118	106	10.7	70 - 130	30	
1,2-Dibromoethane	ND	99	102	3.0	98	99	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	109	108	0.9	111	107	3.7	70 - 130	30	
1,2-Dichloroethane	ND	94	95	1.1	94	96	2.1	70 - 130	30	
1,2-Dichloropropane	ND	100	102	2.0	101	102	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	108	107	0.9	111	110	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	109	107	1.9	111	107	3.7	70 - 130	30	
1,3-Dichloropropane	ND	104	105	1.0	104	104	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	109	108	0.9	110	110	0.0	70 - 130	30	
2,2-Dichloropropane	ND	97	95	2.1	96	93	3.2	70 - 130	30	
2-Chlorotoluene	ND	111	110	0.9	109	108	0.9	70 - 130	30	
2-Hexanone	ND	84	90	6.9	81	82	1.2	70 - 130	30	
2-Isopropyltoluene	ND	110	109	0.9	113	110	2.7	70 - 130	30	
4-Chlorotoluene	ND	106	105	0.9	111	109	1.8	70 - 130	30	
4-Methyl-2-pentanone	ND	93	99	6.3	92	93	1.1	70 - 130	30	
Acetone	ND	49	53	7.8	49	44	10.8	70 - 130	30	l,m
Acrylonitrile	ND	91	93	2.2	95	93	2.1	70 - 130	30	
Benzene	ND	98	97	1.0	97	97	0.0	70 - 130	30	
Bromobenzene	ND	106	108	1.9	109	108	0.9	70 - 130	30	
Bromochloromethane	ND	96	97	1.0	96	98	2.1	70 - 130	30	
Bromodichloromethane	ND	98	100	2.0	98	99	1.0	70 - 130	30	
Bromoform	ND	109	113	3.6	98	99	1.0	70 - 130	30	
Bromomethane	ND	99	99	0.0	57	61	6.8	70 - 130	30	m
Carbon Disulfide	ND	96	93	3.2	70	69	1.4	70 - 130	30	m
Carbon tetrachloride	ND	101	99	2.0	92	91	1.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBF04980

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chlorobenzene	ND	106	105	0.9	107	106	0.9	70 - 130	30	
Chloroethane	ND	102	99	3.0	<40	<40	NC	70 - 130	30	m
Chloroform	ND	94	91	3.2	95	94	1.1	70 - 130	30	
Chloromethane	ND	97	94	3.1	88	85	3.5	70 - 130	30	
cis-1,2-Dichloroethene	ND	101	98	3.0	96	96	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	99	100	1.0	98	99	1.0	70 - 130	30	
Dibromochloromethane	ND	106	111	4.6	104	104	0.0	70 - 130	30	
Dibromomethane	ND	95	99	4.1	96	96	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	100	98	2.0	83	82	1.2	70 - 130	30	
Ethylbenzene	ND	102	100	2.0	106	105	0.9	70 - 130	30	
Hexachlorobutadiene	ND	109	108	0.9	111	111	0.0	70 - 130	30	
Isopropylbenzene	ND	112	110	1.8	111	111	0.0	70 - 130	30	
m&p-Xylene	ND	102	100	2.0	106	104	1.9	70 - 130	30	
Methyl ethyl ketone	ND	68	72	5.7	72	71	1.4	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	93	95	2.1	96	99	3.1	70 - 130	30	
Methylene chloride	ND	94	92	2.2	89	86	3.4	70 - 130	30	
Naphthalene	ND	108	112	3.6	111	110	0.9	70 - 130	30	
n-Butylbenzene	ND	113	108	4.5	113	109	3.6	70 - 130	30	
n-Propylbenzene	ND	111	110	0.9	111	110	0.9	70 - 130	30	
o-Xylene	ND	110	108	1.8	106	106	0.0	70 - 130	30	
p-Isopropyltoluene	ND	111	107	3.7	114	110	3.6	70 - 130	30	
sec-Butylbenzene	ND	109	107	1.9	113	110	2.7	70 - 130	30	
Styrene	ND	108	105	2.8	105	107	1.9	70 - 130	30	
tert-Butylbenzene	ND	111	109	1.8	112	110	1.8	70 - 130	30	
Tetrachloroethene	ND	105	102	2.9	105	104	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	90	95	5.4	94	88	6.6	70 - 130	30	
Toluene	ND	97	97	0.0	100	99	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	100	95	5.1	91	90	1.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	96	98	2.1	96	98	2.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	108	112	3.6	101	100	1.0	70 - 130	30	
Trichloroethene	ND	100	100	0.0	97	98	1.0	70 - 130	30	
Trichlorofluoromethane	ND	102	96	6.1	44	47	6.6	70 - 130	30	m
Trichlorotrifluoroethane	ND	99	96	3.1	74	74	0.0	70 - 130	30	
Vinyl chloride	ND	107	104	2.8	94	91	3.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	100	103	3.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	95	98	98	0.0	98	99	1.0	70 - 130	30	
% Dibromofluoromethane	97	101	99	2.0	100	88	12.8	70 - 130	30	
% Toluene-d8	96	101	100	1.0	101	101	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 240652, QC Sample No: BF05844 (BF04991)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	107	108	0.9	104	102	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	93	94	1.1	94	94	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	105	102	2.9	101	103	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	100	100	0.0	95	96	1.0	70 - 130	30	
1,1-Dichloroethane	ND	99	97	2.0	97	98	1.0	70 - 130	30	
1,1-Dichloroethene	ND	95	97	2.1	77	77	0.0	70 - 130	30	
1,1-Dichloropropene	ND	92	96	4.3	97	99	2.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	104	109	4.7	109	109	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	106	104	1.9	103	103	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	98	104	5.9	107	109	1.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBF04980

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trimethylbenzene	ND	106	108	1.9	109	109	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	120	112	6.9	104	111	6.5	70 - 130	30	
1,2-Dibromoethane	ND	100	99	1.0	94	98	4.2	70 - 130	30	
1,2-Dichlorobenzene	ND	106	106	0.0	106	108	1.9	70 - 130	30	
1,2-Dichloroethane	ND	94	96	2.1	90	92	2.2	70 - 130	30	
1,2-Dichloropropane	ND	100	100	0.0	98	101	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	104	106	1.9	110	109	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	104	107	2.8	108	108	0.0	70 - 130	30	
1,3-Dichloropropane	ND	104	102	1.9	103	102	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	105	108	2.8	108	110	1.8	70 - 130	30	
2,2-Dichloropropane	ND	95	95	0.0	93	93	0.0	70 - 130	30	
2-Chlorotoluene	ND	109	108	0.9	108	109	0.9	70 - 130	30	
2-Hexanone	ND	92	91	1.1	79	81	2.5	70 - 130	30	
2-Isopropyltoluene	ND	106	109	2.8	110	110	0.0	70 - 130	30	
4-Chlorotoluene	ND	102	104	1.9	110	108	1.8	70 - 130	30	
4-Methyl-2-pentanone	ND	97	98	1.0	89	92	3.3	70 - 130	30	
Acetone	ND	54	51	5.7	41	45	9.3	70 - 130	30	l,m
Acrylonitrile	ND	94	93	1.1	89	91	2.2	70 - 130	30	
Benzene	ND	96	97	1.0	97	98	1.0	70 - 130	30	
Bromobenzene	ND	107	106	0.9	108	107	0.9	70 - 130	30	
Bromochloromethane	ND	98	94	4.2	93	94	1.1	70 - 130	30	
Bromodichloromethane	ND	100	100	0.0	94	98	4.2	70 - 130	30	
Bromoform	ND	111	109	1.8	94	97	3.1	70 - 130	30	
Bromomethane	ND	105	100	4.9	60	64	6.5	70 - 130	30	m
Carbon Disulfide	ND	93	93	0.0	79	78	1.3	70 - 130	30	
Carbon tetrachloride	ND	98	98	0.0	95	96	1.0	70 - 130	30	
Chlorobenzene	ND	103	104	1.0	104	106	1.9	70 - 130	30	
Chloroethane	ND	102	100	2.0	<40	<40	NC	70 - 130	30	m
Chloroform	ND	98	91	7.4	93	92	1.1	70 - 130	30	
Chloromethane	ND	95	93	2.1	90	94	4.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	97	96	1.0	95	98	3.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	99	100	1.0	97	99	2.0	70 - 130	30	
Dibromochloromethane	ND	109	107	1.9	100	102	2.0	70 - 130	30	
Dibromomethane	ND	96	97	1.0	93	95	2.1	70 - 130	30	
Dichlorodifluoromethane	ND	89	93	4.4	89	91	2.2	70 - 130	30	
Ethylbenzene	ND	98	101	3.0	104	103	1.0	70 - 130	30	
Hexachlorobutadiene	ND	93	105	12.1	109	110	0.9	70 - 130	30	
Isopropylbenzene	ND	109	109	0.0	109	109	0.0	70 - 130	30	
m&p-Xylene	ND	98	101	3.0	103	102	1.0	70 - 130	30	
Methyl ethyl ketone	ND	71	72	1.4	68	71	4.3	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	94	94	0.0	95	96	1.0	70 - 130	30	
Methylene chloride	ND	90	89	1.1	85	87	2.3	70 - 130	30	
Naphthalene	ND	111	109	1.8	107	108	0.9	70 - 130	30	
n-Butylbenzene	ND	96	109	12.7	111	111	0.0	70 - 130	30	
n-Propylbenzene	ND	104	108	3.8	110	108	1.8	70 - 130	30	
o-Xylene	ND	106	110	3.7	105	106	0.9	70 - 130	30	
p-Isopropyltoluene	ND	100	107	6.8	110	109	0.9	70 - 130	30	
sec-Butylbenzene	ND	101	106	4.8	110	109	0.9	70 - 130	30	
Styrene	ND	104	105	1.0	103	104	1.0	70 - 130	30	
tert-Butylbenzene	ND	110	110	0.0	110	109	0.9	70 - 130	30	
Tetrachloroethene	ND	95	101	6.1	106	104	1.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	92	91	1.1	92	93	1.1	70 - 130	30	
Toluene	ND	96	97	1.0	98	100	2.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBF04980

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,2-Dichloroethene	ND	94	95	1.1	94	92	2.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	98	97	1.0	94	95	1.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	115	110	4.4	98	101	3.0	70 - 130	30	
Trichloroethene	ND	97	99	2.0	97	97	0.0	70 - 130	30	
Trichlorofluoromethane	ND	95	96	1.0	47	48	2.1	70 - 130	30	m
Trichlorotrifluoroethane	ND	87	93	6.7	77	74	4.0	70 - 130	30	
Vinyl chloride	ND	104	103	1.0	96	98	2.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	96	103	101	2.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	96	97	98	1.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	94	98	100	2.0	99	99	0.0	70 - 130	30	
% Toluene-d8	98	100	102	2.0	101	102	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of 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.

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 19, 2013

Sample Criteria Exceedences Report

GBF04980 - MAGU-DAS

Requested Criteria: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF04988	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1500	510	1000	1000	ug/Kg
BF04988	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1500	510	1000	1000	ug/Kg
BF04988	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1600	510	1000	1000	ug/Kg
BF04988	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2300	510	1000	1000	ug/Kg
BF04988	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2300	510	1000	1000	ug/Kg
BF04988	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1400	510	1000	1000	ug/Kg
BF04988	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1400	510	1000	1000	ug/Kg
BF04988	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.202	0.010	0.15	0.15	mg/L
BF04991	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	746	4.1	400	400	mg/Kg
BF04991	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.545	0.010	0.15	0.15	mg/L

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGU-DAS

Project Location: MIDDLETOWN SEWER PROJE **Project Number:**

Laboratory Sample ID(s): BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989, BF04990, BF04991, BF04992, BF04993

Sampling Date(s): 7/12/2013

RCP Methods Used:

☑ 1311/1312 ☑ 6010 ☐ 7000 ☐ 7196 ☑ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☐ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☐ Yes ☑ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☑ Yes ☐ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Friday, July 19, 2013

Printed Name: Maryam Taylor

Position: Project Manager

Nov 2007

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
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 07/14/13-1 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04990, BF04991)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Keith Aloisa
Position: Chemist
Date: 7/14/2013

Instrument: Au-fid1 07/16/13-4 (BF04988)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 7/16/2013

Instrument: Au-fid84 07/14/13-1 (BF04989)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Keith Aloisa
Position: Chemist
Date: 7/14/2013

Instrument: Au-xl2 07/15/13-1 (BF04988)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

Printed Name Jeff Bucko
Position: Chemist
Date: 7/15/2013

QC (Site Specific)

---------- Sample No: BF04987, QA/QC Batch: 240145 ----------

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.

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.

Mercury Narration

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

Instrument: Merlin 07/15/13-1 (BF04988, BF04989, BF04990, BF04991)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 7/15/2013

Instrument: Merlin 07/16/13-1 (BF04988, BF04989, BF04990, BF04991)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 7/16/2013

QC (Batch Specific)

---------- Sample No: BF04361, QA/QC Batch: 240307 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BF05245, QA/QC Batch: 240630 ----------

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.

---------- Sample No: BF05264, QA/QC Batch: 240305 ----------

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.

ICP Narration

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

Instrument: Arcos 07/12/13-1 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/12/2013

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

Instrument: Arcos 07/13/13-1 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/13/2013

Instrument: Arcos 07/14/13-1 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989, BF04990, BF04991)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/14/2013

Instrument: Arcos 07/15/13-1 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04988, BF04989, BF04990, BF04991)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/15/2013

Instrument: Arcos 07/16/13-1 (BF04991)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 7/16/2013

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

QC (Site Specific)

---------- Sample No: BF04980, QA/QC Batch: 240190 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BF04987, QA/QC Batch: 240311 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD96605, QA/QC Batch: 239629 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BF05264, QA/QC Batch: 240191 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

PAH Narration

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

Instrument: Chem09 07/12/13-1 (BF04980, BF04981, BF04982, BF04983)

The DDT breakdown and benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM09/BN_0701):
85% of target compounds met criteria.
The following compounds had %RSDs >20%: 2-Nitrophenol (24%), Acetophenone (25%), Nitrobenzene (21%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM09/0712_05-BN_0701):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/12/2013

Instrument: Chem12 07/15/13-1 (BF04988)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM12/BN_0703):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM12/0714_02-BN_0703):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/15/2013

Instrument: Chem19 07/14/13-1 (BF04984, BF04985, BF04986, BF04987, BF04989, BF04990, BF04991)

Initial Calibration Verification (CHEM19/BN_0701):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

Continuing Calibration Verification (CHEM19/0714_04-BN_0701):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/14/2013

QC (Batch Specific)

---------- Sample No: BF04743, QA/QC Batch: 240005 ----------

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.

VOA Narration

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

QC Batch 240452 (Samples: BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04990, BF04992, BF04993): -----

The QC recoveries for one or more analytes is below the lower range, but within the method criteria. A slight low bias is likely. (Acetone, Methyl ethyl ketone)

QC Batch 240561 (Samples: BF04988, BF04989): -----

The LCS and/or the LCSD recovery is below the lower range, but within the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Methyl ethyl ketone)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (Bromomethane, Carbon Disulfide, Chloroethane, Trichlorofluoromethane)

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

QC Batch 240652 (Samples: BF04991): -----

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

Instrument: Chem03 07/13/13-2 (BF04980, BF04981, BF04982, BF04983, BF04984, BF04985, BF04986, BF04987, BF04990, BF04992, BF04993)

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

Initial Calibration Verification (CHEM03/RCPS_0712):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (21%), Methylene Chloride (23%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0713L30-RCPS_0712):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Johanna Harrington
Position: Chemist
Date: 7/13/2013

Instrument: Chem18 07/13/13-3 (BF04988, BF04989)

Initial Calibration Verification (CHEM18/RCPS_0712N2):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0713M81-RCPS_0712N2):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Johanna Harrington
Position: Chemist
Date: 7/13/2013

Instrument: Chem18 07/15/13-1 (BF04991)

Initial Calibration Verification (CHEM18/RCPS_0712N2):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0715M02-RCPS_0712N2):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

Printed Name	Caleb Githinji
Position:	Chemist
Date:	7/15/2013

QC (Site Specific)

---------- Sample No: BF04986, QA/QC Batch: 240452 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(59%), Methyl ethyl ketone(64%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(55%), Methyl ethyl ketone(65%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: Acetone(62%), Methyl ethyl ketone(68%)

All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(55%), Methyl ethyl ketone(64%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BF04988, QA/QC Batch: 240561 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(49%), Methyl ethyl ketone(68%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(53%)

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(49%), Bromomethane(57%), Chloroethane(<40%), Trichlorofluoromethane(44%)

All MSD recoveries were within 70 - 130 with the following exceptions: Acetone(44%), Bromomethane(61%), Carbon Disulfide(69%), Chloroethane(<40%), Trichlorofluoromethane(47%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BF05844, QA/QC Batch: 240652 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(54%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(51%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

RCP Certification Report

July 19, 2013

SDG I.D.: GBF04980

Temperature Narration

The samples were received at 7C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ N ☐

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 7 °C Pg 1 of 2

Data Delivery:
☐ Fax #:
☒ Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Hwy.
Rocky Hill CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:
Phone #: 8605633158
Fax #:

Client Sample - Information - Identification

Sampler's Signature: Cathy Lyt
Date: 7-12-13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs-8260	PAHs-8270	CT ETPH	Total Lead	SPLP Lead	Total RCRA 8 Metals	SPLP RCRA 8 Metals						Soil VOA Vials [1] methanol [2] H2O	GL Soil container (9) oz.	GL Soil container ( ) oz.	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
04980	PSGP-42 1-5'	S	7-12-13	6:55am	X	X	X	X	X								1/2	1								
04981	PSGP-42 9-13'	↓	↓	7:10am	↓	↓	↓	↓	↓								↓	↓								
04982	PSGP-42 15-20'	↓	↓	7:30am	↓	↓	↓	↓	↓								↓	↓								
04983	PSGP-44 2-5'	↓	↓	6:00am	↓	↓	↓	↓	↓								↓	↓								
04984	PSGP-44 8-12'	↓	↓	6:10am	↓	↓	↓	↓	↓								↓	↓								
04985	PSGP-44 15-20'	↓	↓	6:15am	↓	↓	↓	↓	↓								↓	↓								
04986	PSGP-57 1-5'	↓	↓	5:30am	↓	↓	↓	↓	↓								↓	↓								
04987	PSGP-58 2-5'	↓	↓	8:00am	↓	↓	↓	↓	↓								↓	↓								
04988	FMGP-71 2-5'	↓	↓	8:40am	X	X	X			X	X						↓	2								
04989	FMGP-72 2-5'	↓	↓	8:55am	X	X	X			↓	↓						↓	↓								
04990	FMGP-73 1-5'	↓	↓	9:25am	X	X	X			↓	↓						↓	↓								
04991	FMGP-74 5-10'	↓	↓	10:05am	X	X	X			↓	↓						↓	↓								

Relinquished by:	Accepted by:	Date:	Time:
Cathy Lyt	[signature]	7/12/13	10:57

Comments, Special Requirements or Regulations:

Turnaround:
☐ 1 Day*
☐ 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

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

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

State where samples were collected: CT

* SURCHARGE APPLIES

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

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Contact Options:
[ ] Fax:
[X] Phone: 8605633158
[X] Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Hwy
Rocky Hill CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 7-12-13

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs - 8260	Soil VOA Vials [1] methanol [2] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
04992	TB-3 Low	S	7-12-13	–	X	2									
04993	TB-3 High	S	↓	–	X	1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	7/12/13	10:57

Comments, Special Requirements or Regulations:

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

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

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[X] 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*
[ ] Phoenix Std Report
[ ] Other

* SURCHARGE APPLIES

PHOENIX
Environmental Laboratories, Inc.

Tuesday, July 02, 2013

Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: MIDDLETOWN SEWER PROJECT
Sample ID#s: BD96501 - BD96514

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	5:30
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96501

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	12.5	0.40	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	90		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/F	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	06/26/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	72		%	06/26/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	06/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 1-5 FT

Phoenix I.D.: BD96501

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	06/28/13	R/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	06/28/13	R/J	SW8260
Acetone	ND	34	ug/Kg	06/28/13	R/J	SW8260
Acrylonitrile	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Benzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Bromodichloromethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Bromoform	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Bromomethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Chloroethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Chloroform	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Chloromethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	06/28/13	R/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	06/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/28/13	R/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Naphthalene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
o-Xylene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Styrene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 1-5 FT

Phoenix I.D.: BD96501

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/28/13	R/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	06/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	105		%	06/28/13	R/J	70 - 130 %
% Bromofluorobenzene	93		%	06/28/13	R/J	70 - 130 %
% Dibromofluoromethane	105		%	06/28/13	R/J	70 - 130 %
% Toluene-d8	95		%	06/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	380	260	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	390	260	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	540	260	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Chrysene	360	260	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	590	260	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	320	260	ug/Kg	06/26/13	DD	SW 8270
Pyrene	520	260	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	95		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	96		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	98		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96501

Client ID: PSGP-47 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	5:40
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96502

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 10-15 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	20.9	0.38	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	0.018	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	85		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/FV	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	58	mg/Kg	06/26/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	91		%	06/26/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	06/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 10-15 FT

Phoenix I.D.: BD96502

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/28/13	R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
4-Chlorotoluene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/28/13	R/J	SW8260
Acetone	ND	42	ug/Kg	06/28/13	R/J	SW8260
Acrylonitrile	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Benzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	06/28/13	R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	06/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	R/J	SW8260
Methylene chloride	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 10-15 FT

Phoenix I.D.: BD96502

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	104		%	06/28/13	R/J	70 - 130 %
% Bromofluorobenzene	96		%	06/28/13	R/J	70 - 130 %
% Dibromofluoromethane	102		%	06/28/13	R/J	70 - 130 %
% Toluene-d8	96		%	06/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	300	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Pyrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	92		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	81		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	102		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96502

Client ID: PSGP-47 10-15 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	5:50
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96503

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	14.8	0.36	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	86		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/FV	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	57	mg/Kg	06/26/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	86		%	06/26/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	06/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 15-20 FT

Phoenix I.D.: BD96503

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/28/13	R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/28/13	R/J	SW8260
Acetone	ND	41	ug/Kg	06/28/13	R/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Benzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromoform	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Chloroform	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	06/28/13	R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	R/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Naphthalene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Styrene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-47 15-20 FT

Phoenix I.D.: BD96503

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	105		%	06/28/13	R/J	70 - 130 %
% Bromofluorobenzene	91		%	06/28/13	R/J	70 - 130 %
% Dibromofluoromethane	98		%	06/28/13	R/J	70 - 130 %
% Toluene-d8	97		%	06/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Pyrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	88		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	85		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	104		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96503

Client ID: PSGP-47 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	8:55
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96504

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	6.12	0.34	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	91		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/FV	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	06/26/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	78		%	06/26/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	06/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 1-5 FT

Phoenix I.D.: BD96504

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/28/13	R/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/28/13	R/J	SW8260
Acetone	ND	35	ug/Kg	06/28/13	R/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Benzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Bromoform	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Bromomethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Chloroethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Chloroform	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Chloromethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	06/28/13	R/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	R/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Naphthalene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
o-Xylene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Styrene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 1-5 FT

Phoenix I.D.: BD96504

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	R/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	06/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	104		%	06/28/13	R/J	70 - 130 %
% Bromofluorobenzene	96		%	06/28/13	R/J	70 - 130 %
% Dibromofluoromethane	100		%	06/28/13	R/J	70 - 130 %
% Toluene-d8	96		%	06/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	560	250	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	680	250	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	840	250	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	290	250	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	350	250	ug/Kg	06/26/13	DD	SW 8270
Chrysene	580	250	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	1100	250	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	340	250	ug/Kg	06/26/13	DD	SW 8270
Pyrene	1100	250	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	101		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	95		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	116		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96504

Client ID: PSGP-49 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	9:15
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96505

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 5-10 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	9.91	0.38	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	87		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	JS/F	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	56	mg/Kg	06/26/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	73		%	06/26/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	06/29/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 5-10 FT

Phoenix I.D.: BD96505

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/29/13	R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
4-Chlorotoluene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/29/13	R/J	SW8260
Acetone	ND	36	ug/Kg	06/29/13	R/J	SW8260
Acrylonitrile	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Benzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	06/29/13	R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	06/29/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/29/13	R/J	SW8260
Methylene chloride	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/29/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 5-10 FT

Phoenix I.D.: BD96505

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/29/13	R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/29/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	06/29/13	R/J	70 - 130 %
% Bromofluorobenzene	92		%	06/29/13	R/J	70 - 130 %
% Dibromofluoromethane	103		%	06/29/13	R/J	70 - 130 %
% Toluene-d8	100		%	06/29/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	540	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	410	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	530	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Chrysene	540	270	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	1200	270	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	1200	270	ug/Kg	06/26/13	DD	SW 8270
Pyrene	1000	270	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	95		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	85		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	100		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96505

Client ID: PSGP-49 5-10 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	9:40
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96506

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	73.7	0.39	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	82		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/FV	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	1200	61	mg/Kg	06/26/13	JRB	CT ETPH/8015
Identification	**		mg/Kg	06/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	58		%	06/26/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,1,1-Trichloroethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	180	ug/Kg	06/29/13	R/J	SW8260
1,1,2-Trichloroethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloroethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloroethene	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloropropene	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,2,3-Trichloropropane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,2,4-Trimethylbenzene	1900	310	ug/Kg	06/29/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	310	ug/Kg	06/29/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 15-20 FT

Phoenix I.D.: BD96506

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichlorobenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichloroethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichloropropane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,3,5-Trimethylbenzene	680	310	ug/Kg	06/29/13	R/J	SW8260
1,3-Dichlorobenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,3-Dichloropropane	ND	310	ug/Kg	06/29/13	R/J	SW8260
1,4-Dichlorobenzene	530	310	ug/Kg	06/29/13	R/J	SW8260
2,2-Dichloropropane	ND	310	ug/Kg	06/29/13	R/J	SW8260
2-Chlorotoluene	ND	310	ug/Kg	06/29/13	R/J	SW8260
2-Hexanone	ND	1500	ug/Kg	06/29/13	R/J	SW8260
2-Isopropyltoluene	ND	310	ug/Kg	06/29/13	R/J	SW8260
4-Chlorotoluene	ND	310	ug/Kg	06/29/13	R/J	SW8260
4-Methyl-2-pentanone	ND	1500	ug/Kg	06/29/13	R/J	SW8260
Acetone	ND	1800	ug/Kg	06/29/13	R/J	SW8260
Acrylonitrile	ND	310	ug/Kg	06/29/13	R/J	SW8260
Benzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Bromobenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Bromochloromethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
Bromodichloromethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
Bromoform	ND	310	ug/Kg	06/29/13	R/J	SW8260
Bromomethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
Carbon Disulfide	ND	310	ug/Kg	06/29/13	R/J	SW8260
Carbon tetrachloride	ND	310	ug/Kg	06/29/13	R/J	SW8260
Chlorobenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Chloroethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
Chloroform	ND	310	ug/Kg	06/29/13	R/J	SW8260
Chloromethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	310	ug/Kg	06/29/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Dibromochloromethane	ND	180	ug/Kg	06/29/13	R/J	SW8260
Dibromomethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
Dichlorodifluoromethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
Ethylbenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Hexachlorobutadiene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Isopropylbenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
m&p-Xylene	400	310	ug/Kg	06/29/13	R/J	SW8260
Methyl Ethyl Ketone	ND	1800	ug/Kg	06/29/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	620	ug/Kg	06/29/13	R/J	SW8260
Methylene chloride	ND	310	ug/Kg	06/29/13	R/J	SW8260
Naphthalene	1400	310	ug/Kg	06/29/13	R/J	SW8260
n-Butylbenzene	450	310	ug/Kg	06/29/13	R/J	SW8260
n-Propylbenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
o-Xylene	ND	310	ug/Kg	06/29/13	R/J	SW8260
p-Isopropyltoluene	710	310	ug/Kg	06/29/13	R/J	SW8260
sec-Butylbenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Styrene	ND	310	ug/Kg	06/29/13	R/J	SW8260
tert-Butylbenzene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Tetrachloroethene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	620	ug/Kg	06/29/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 15-20 FT

Phoenix I.D.: BD96506

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Total Xylenes	400	310	ug/Kg	06/29/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	310	ug/Kg	06/29/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	310	ug/Kg	06/29/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	620	ug/Kg	06/29/13	R/J	SW8260
Trichloroethene	ND	310	ug/Kg	06/29/13	R/J	SW8260
Trichlorofluoromethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
Trichlorotrifluoroethane	ND	310	ug/Kg	06/29/13	R/J	SW8260
Vinyl chloride	ND	310	ug/Kg	06/29/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	06/29/13	R/J	70 - 130 %
% Bromofluorobenzene	101		%	06/29/13	R/J	70 - 130 %
% Dibromofluoromethane	95		%	06/29/13	R/J	70 - 130 %
% Toluene-d8	98		%	06/29/13	R/J	70 - 130 %
Polynuclear Aromatic HC						
2-Methylnaphthalene	2000	280	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	06/26/13	DD	SW 8270
Anthracene	700	280	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	1100	280	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	960	280	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	1400	280	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	490	280	ug/Kg	06/26/13	DD	SW 8270
Chrysene	1200	280	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	2600	280	ug/Kg	06/26/13	DD	SW 8270
Fluorene	830	280	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	390	280	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	2900	280	ug/Kg	06/26/13	DD	SW 8270
Pyrene	2100	280	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	98		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	80		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	85		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96506

Client ID: PSGP-49 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

**Petroleum hydrocarbon chromatogram contains individual discrete hydrocarbon peaks in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	10:45
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96507

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 20-30 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	7.62	0.40	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	78		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/FV	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	64	mg/Kg	06/27/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/27/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	56		%	06/27/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.1	ug/Kg	06/29/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloropropene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 20-30 FT

Phoenix I.D.: BD96507

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,3-Dichloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
2,2-Dichloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
2-Chlorotoluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
2-Hexanone	ND	34	ug/Kg	06/29/13	R/J	SW8260
2-Isopropyltoluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
4-Chlorotoluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
4-Methyl-2-pentanone	ND	34	ug/Kg	06/29/13	R/J	SW8260
Acetone	ND	41	ug/Kg	06/29/13	R/J	SW8260
Acrylonitrile	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Benzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromochloromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromodichloromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromoform	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromomethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Carbon Disulfide	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Carbon tetrachloride	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Chlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Chloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Chloroform	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Chloromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Dibromochloromethane	ND	4.1	ug/Kg	06/29/13	R/J	SW8260
Dibromomethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Ethylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Hexachlorobutadiene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Isopropylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
m&p-Xylene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Methyl Ethyl Ketone	ND	41	ug/Kg	06/29/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	06/29/13	R/J	SW8260
Methylene chloride	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Naphthalene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
n-Butylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
n-Propylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
o-Xylene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
p-Isopropyltoluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
sec-Butylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Styrene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
tert-Butylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Tetrachloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	06/29/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-49 20-30 FT

Phoenix I.D.: BD96507

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Total Xylenes	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	06/29/13	R/J	SW8260
Trichloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Trichlorofluoromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Vinyl chloride	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	06/29/13	R/J	70 - 130 %
% Bromofluorobenzene	89		%	06/29/13	R/J	70 - 130 %
% Dibromofluoromethane	103		%	06/29/13	R/J	70 - 130 %
% Toluene-d8	98		%	06/29/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Chrysene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Pyrene	ND	290	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	88		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	80		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	101		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96507

Client ID: PSGP-49 20-30 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	7:20
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96508

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51A 35-40 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	8.29	0.40	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	77		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/FV	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	64	mg/Kg	06/27/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/27/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	81		%	06/27/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.1	ug/Kg	06/29/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,1-Dichloropropene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51A 35-40 FT

Phoenix I.D.: BD96508

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,2-Dichloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,3-Dichloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
2,2-Dichloropropane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
2-Chlorotoluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
2-Hexanone	ND	34	ug/Kg	06/29/13	R/J	SW8260
2-Isopropyltoluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
4-Chlorotoluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
4-Methyl-2-pentanone	ND	34	ug/Kg	06/29/13	R/J	SW8260
Acetone	ND	41	ug/Kg	06/29/13	R/J	SW8260
Acrylonitrile	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Benzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromochloromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromodichloromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromoform	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Bromomethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Carbon Disulfide	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Carbon tetrachloride	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Chlorobenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Chloroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Chloroform	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Chloromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Dibromochloromethane	ND	4.1	ug/Kg	06/29/13	R/J	SW8260
Dibromomethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Ethylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Hexachlorobutadiene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Isopropylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
m&p-Xylene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Methyl Ethyl Ketone	ND	41	ug/Kg	06/29/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	06/29/13	R/J	SW8260
Methylene chloride	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Naphthalene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
n-Butylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
n-Propylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
o-Xylene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
p-Isopropyltoluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
sec-Butylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Styrene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
tert-Butylbenzene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Tetrachloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	06/29/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51A 35-40 FT

Phoenix I.D.: BD96508

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Total Xylenes	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	14	ug/Kg	06/29/13	R/J	SW8260
Trichloroethene	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Trichlorofluoromethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
Vinyl chloride	ND	6.8	ug/Kg	06/29/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	06/29/13	R/J	70 - 130 %
% Bromofluorobenzene	85		%	06/29/13	R/J	70 - 130 %
% Dibromofluoromethane	102		%	06/29/13	R/J	70 - 130 %
% Toluene-d8	98		%	06/29/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Chrysene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	ND	290	ug/Kg	06/26/13	DD	SW 8270
Pyrene	ND	290	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	79		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	77		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	99		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96508

Client ID: PSGP-51A 35-40 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	6:55
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96509

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51A 25-30 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	8.91	0.41	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	75		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/F	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	65	mg/Kg	06/27/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/27/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	75		%	06/27/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.0	ug/Kg	06/30/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloropropene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51A 25-30 FT

Phoenix I.D.: BD96509

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloroethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloropropane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichloropropane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
2,2-Dichloropropane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
2-Chlorotoluene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
2-Hexanone	ND	33	ug/Kg	06/30/13	R/J	SW8260
2-Isopropyltoluene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
4-Chlorotoluene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
4-Methyl-2-pentanone	ND	33	ug/Kg	06/30/13	R/J	SW8260
Acetone	ND	40	ug/Kg	06/30/13	R/J	SW8260
Acrylonitrile	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Benzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Bromobenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Bromochloromethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Bromodichloromethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Bromoform	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Bromomethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Carbon Disulfide	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Carbon tetrachloride	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Chlorobenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Chloroethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Chloroform	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Chloromethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Dibromochloromethane	ND	4.0	ug/Kg	06/30/13	R/J	SW8260
Dibromomethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Ethylbenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Hexachlorobutadiene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Isopropylbenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
m&p-Xylene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Methyl Ethyl Ketone	ND	40	ug/Kg	06/30/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	06/30/13	R/J	SW8260
Methylene chloride	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Naphthalene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
n-Butylbenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
n-Propylbenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
o-Xylene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
p-Isopropyltoluene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
sec-Butylbenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Styrene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
tert-Butylbenzene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Tetrachloroethene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51A 25-30 FT

Phoenix I.D.: BD96509

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Total Xylenes	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	06/30/13	R/J	SW8260
Trichloroethene	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Trichlorofluoromethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
Vinyl chloride	ND	6.6	ug/Kg	06/30/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	06/30/13	R/J	70 - 130 %
% Bromofluorobenzene	92		%	06/30/13	R/J	70 - 130 %
% Dibromofluoromethane	107		%	06/30/13	R/J	70 - 130 %
% Toluene-d8	98		%	06/30/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Chrysene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	ND	310	ug/Kg	06/26/13	DD	SW 8270
Pyrene	ND	310	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	71		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	74		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	95		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96509

Client ID: PSGP-51A 25-30 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	11:30
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96510

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	10.2	0.39	mg/Kg	06/26/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	91		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/FV	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	06/27/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/27/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	64		%	06/27/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	06/30/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 1-5 FT

Phoenix I.D.: BD96510

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	06/30/13	R/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	06/30/13	R/J	SW8260
Acetone	ND	33	ug/Kg	06/30/13	R/J	SW8260
Acrylonitrile	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Benzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Bromoform	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Bromomethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Chloroethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Chloroform	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Chloromethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	06/30/13	R/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	06/30/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/30/13	R/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Naphthalene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
o-Xylene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Styrene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 1-5 FT

Phoenix I.D.: BD96510

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/30/13	R/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	06/30/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	104		%	06/30/13	R/J	70 - 130 %
% Bromofluorobenzene	89		%	06/30/13	R/J	70 - 130 %
% Dibromofluoromethane	108		%	06/30/13	R/J	70 - 130 %
% Toluene-d8	98		%	06/30/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	250	250	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	510	250	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	700	250	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	820	250	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	330	250	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	260	250	ug/Kg	06/26/13	DD	SW 8270
Chrysene	540	250	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	690	250	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	260	250	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	06/26/13	DD	SW 8270
Pyrene	730	250	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	100		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	87		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	96		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96510

Client ID: PSGP-53 1-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	11:55
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96511

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 10-15 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	23.3	0.37	mg/Kg	06/26/13	EK	SW6010
SPLP Lead	0.021	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	88		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/28/13	BJ/F	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	56	mg/Kg	06/29/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/29/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	90		%	06/29/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	06/30/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 10-15 FT

Phoenix I.D.: BD96511

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/30/13	R/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/30/13	R/J	SW8260
Acetone	ND	35	ug/Kg	06/30/13	R/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Benzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Bromoform	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Bromomethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Chloroethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Chloroform	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Chloromethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	06/30/13	R/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/30/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/30/13	R/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Naphthalene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
o-Xylene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Styrene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 10-15 FT

Phoenix I.D.: BD96511

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/30/13	R/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	06/30/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	06/30/13	R/J	70 - 130 %
% Bromofluorobenzene	92		%	06/30/13	R/J	70 - 130 %
% Dibromofluoromethane	104		%	06/30/13	R/J	70 - 130 %
% Toluene-d8	99		%	06/30/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	06/26/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	92		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	88		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	101		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96511

Client ID: PSGP-53 10-15 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	12:49
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96512

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 25-30 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	11.6	4.1	mg/Kg	06/26/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/26/13	EK	SW6010
SPLP Metals Digestion	Completed			06/26/13	H/H	SW846-3005
Percent Solid	77		%	06/25/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/25/13	JJ/FV	SW3545
Extraction of CT ETPH	Completed			06/25/13	NS/F	3545
SPLP Extraction for Metals	Completed			06/25/13	H	EPA 1312
Total Metals Digest	Completed			06/25/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/25/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	63	mg/Kg	06/27/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/27/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	72		%	06/27/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	06/30/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 25-30 FT

Phoenix I.D.: BD96512

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/30/13	R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
4-Chlorotoluene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/30/13	R/J	SW8260
Acetone	ND	36	ug/Kg	06/30/13	R/J	SW8260
Acrylonitrile	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Benzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Bromodichloromethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Bromoform	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Chloroform	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	06/30/13	R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	06/30/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/30/13	R/J	SW8260
Methylene chloride	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Styrene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-53 25-30 FT

Phoenix I.D.: BD96512

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/30/13	R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	06/30/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	105		%	06/30/13	R/J	70 - 130 %
% Bromofluorobenzene	94		%	06/30/13	R/J	70 - 130 %
% Dibromofluoromethane	110		%	06/30/13	R/J	70 - 130 %
% Toluene-d8	99		%	06/30/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Acenaphthene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Acenaphthylene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Anthracene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Benz(a)anthracene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Benzo(a)pyrene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Chrysene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Fluoranthene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Fluorene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Naphthalene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Phenanthrene	ND	300	ug/Kg	06/26/13	DD	SW 8270
Pyrene	ND	300	ug/Kg	06/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	82		%	06/26/13	DD	30 - 130 %
% Nitrobenzene-d5	88		%	06/26/13	DD	30 - 130 %
% Terphenyl-d14	97		%	06/26/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96512

Client ID: PSGP-53 25-30 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	0:00
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96513

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-1 LOW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	06/25/13		E160.3
Field Extraction	Completed			06/25/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	06/30/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	06/30/13	R/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-1 LOW

Phoenix I.D.: BD96513

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	06/30/13	R/J	SW8260
Acetone	ND	30	ug/Kg	06/30/13	R/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Benzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Bromoform	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Chloroform	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	06/30/13	R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	06/30/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	06/30/13	R/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Styrene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	06/30/13	R/J	SW8260
Toluene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	06/30/13	R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	06/30/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	06/30/13	R/J	70 - 130 %
% Bromofluorobenzene	93		%	06/30/13	R/J	70 - 130 %
% Dibromofluoromethane	101		%	06/30/13	R/J	70 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96513

Client ID: TB-1 LOW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	98		%	06/30/13	R/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/25/13	0:00
Location Code:	MAGU-DAS	Received by:	LB	06/25/13	13:32
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD96501
Phoenix ID: BD96514

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-1 HIGH

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	06/25/13		E160.3
Field Extraction	Completed			06/25/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	06/30/13	R/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	06/30/13	R/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	06/30/13	R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	06/30/13	R/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	06/30/13	R/J	SW8260
4-Chlorotoluene	ND	250	ug/Kg	06/30/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: TB-1 HIGH

Phoenix I.D.: BD96514

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	06/30/13	R/J	SW8260
Acetone	ND	5000	ug/Kg	06/30/13	R/J	SW8260
Acrylonitrile	ND	500	ug/Kg	06/30/13	R/J	SW8260
Benzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Bromobenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Bromoform	ND	250	ug/Kg	06/30/13	R/J	SW8260
Bromomethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	06/30/13	R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	06/30/13	R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Chloroethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Chloroform	ND	250	ug/Kg	06/30/13	R/J	SW8260
Chloromethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	06/30/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Dibromomethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	06/30/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	06/30/13	R/J	SW8260
Methylene chloride	ND	500	ug/Kg	06/30/13	R/J	SW8260
Naphthalene	ND	250	ug/Kg	06/30/13	R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
o-Xylene	ND	250	ug/Kg	06/30/13	R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	06/30/13	R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Styrene	ND	250	ug/Kg	06/30/13	R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	06/30/13	R/J	SW8260
Toluene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Total Xylenes	ND	250	ug/Kg	06/30/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	06/30/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	06/30/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	06/30/13	R/J	SW8260
Trichloroethene	ND	250	ug/Kg	06/30/13	R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	06/30/13	R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	06/30/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	06/30/13	R/J	70 - 130 %
% Bromofluorobenzene	91		%	06/30/13	R/J	70 - 130 %
% Dibromofluoromethane	103		%	06/30/13	R/J	70 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD96514

Client ID: TB-1 HIGH

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	98		%	06/30/13	R/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

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 02, 2013

QA/QC Data

SDG I.D.: GBD96501

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 237385, QC Sample No: BD95595 (BD96501, BD96502, BD96503, BD96504, BD96505, BD96506, BD96507, BD96508, BD96509, BD96510, BD96511, BD96512)												
ICP Metals - SPLP Extraction												
Lead	BRL	<0.010	<0.010	NC	94.5	96.1	1.7	96.1	93.2	3.1	75 - 125	20
QA/QC Batch 237315, QC Sample No: BD96510 (BD96501, BD96502, BD96503, BD96504, BD96505, BD96506, BD96507, BD96508, BD96509, BD96510, BD96511)												
ICP Metals - Soil												
Lead	BRL	10.2	10.4	1.90	88.6	86.6	2.3	80.0	83.2	3.9	75 - 125	30
QA/QC Batch 237314, QC Sample No: BD96858 (BD96512)												
ICP Metals - Soil												
Lead	BRL	11.0	14.8	29.5	89.5	89.3	0.2	84.4	82.1	2.8	75 - 125	30

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 02, 2013

QA/QC Data

SDG I.D.: GBD96501

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 237110, QC Sample No: BD96139 (BD96501, BD96502, BD96503, BD96504, BD96505, BD96506, BD96507, BD96508, BD96509, BD96510, BD96511, BD96512)									
Polynuclear Aromatic HC - Soil									
2-Methylnaphthalene	ND	78	92	16.5	78	90	14.3	30 - 130	30
Acenaphthene	ND	86	88	2.3	97	105	7.9	30 - 130	30
Acenaphthylene	ND	90	98	8.5	93	101	8.2	30 - 130	30
Anthracene	ND	92	89	3.3	95	103	8.1	30 - 130	30
Benz(a)anthracene	ND	97	90	7.5	94	103	9.1	30 - 130	30
Benzo(a)pyrene	ND	84	76	10.0	84	94	11.2	30 - 130	30
Benzo(b)fluoranthene	ND	92	88	4.4	94	110	15.7	30 - 130	30
Benzo(ghi)perylene	ND	84	75	11.3	95	70	30.3	30 - 130	30
Benzo(k)fluoranthene	ND	94	87	7.7	91	109	18.0	30 - 130	30
Chrysene	ND	89	82	8.2	86	94	8.9	30 - 130	30
Dibenz(a,h)anthracene	ND	89	82	8.2	98	81	19.0	30 - 130	30
Fluoranthene	ND	95	86	9.9	98	111	12.4	30 - 130	30
Fluorene	ND	88	90	2.2	93	102	9.2	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	87	80	8.4	95	79	18.4	30 - 130	30
Naphthalene	ND	85	83	2.4	88	96	8.7	30 - 130	30
Phenanthrene	ND	89	91	2.2	102	113	10.2	30 - 130	30
Pyrene	ND	93	89	4.4	98	110	11.5	30 - 130	30
% 2-Fluorobiphenyl	73	89	90	1.1	93	111	17.6	30 - 130	30
% Nitrobenzene-d5	80	88	80	9.5	79	79	0.0	30 - 130	30
% Terphenyl-d14	79	95	91	4.3	101	110	8.5	30 - 130	30

Comment:

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

QA/QC Batch 237119, QC Sample No: BD96155 (BD96501, BD96502, BD96503, BD96504, BD96505, BD96506, BD96507)									
TPH by GC (Extractable Products) - Soil									
Ext. Petroleum HC	ND	75	65	14.3	84	81	3.6	60 - 120	30
% n-Pentacosane	88	81	75	7.7	92	90	2.2	50 - 150	30
QA/QC Batch 237120, QC Sample No: BD96278 (BD96508, BD96509, BD96510, BD96511, BD96512)									
TPH by GC (Extractable Products) - Soil									
Ext. Petroleum HC	ND	72	71	1.4				60 - 120	30
% n-Pentacosane	59	62	61	1.6				50 - 150	30

Comment:

*The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within QA/QC criteria.

QA/QC Batch 238138, QC Sample No: BD96508 (BD96505, BD96506 (42X) , BD96507, BD96508)									
Volatiles - Soil									
1,1,1,2-Tetrachloroethane	ND	103	103	0.0	94	92	2.2	70 - 130	30
1,1,1-Trichloroethane	ND	94	90	4.3	86	84	2.4	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	85	82	3.6	88	82	7.1	70 - 130	30
1,1,2-Trichloroethane	ND	100	99	1.0	92	87	5.6	70 - 130	30

QA/QC Data

SDG I.D.: GBD96501

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloroethane	ND	86	83	3.6	82	82	0.0	70 - 130	30	
1,1-Dichloroethene	ND	85	87	2.3	84	80	4.9	70 - 130	30	
1,1-Dichloropropene	ND	95	97	2.1	88	88	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	105	102	2.9	62	64	3.2	70 - 130	30	m
1,2,3-Trichloropropane	ND	87	85	2.3	85	81	4.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	104	103	1.0	64	67	4.6	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	95	96	1.0	87	86	1.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	102	99	3.0	91	85	6.8	70 - 130	30	
1,2-Dibromoethane	ND	101	99	2.0	91	88	3.4	70 - 130	30	
1,2-Dichlorobenzene	ND	98	96	2.1	84	83	1.2	70 - 130	30	
1,2-Dichloroethane	ND	96	94	2.1	87	83	4.7	70 - 130	30	
1,2-Dichloropropane	ND	92	92	0.0	88	87	1.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	94	95	1.1	87	87	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	99	98	1.0	85	86	1.2	70 - 130	30	
1,3-Dichloropropane	ND	93	93	0.0	88	85	3.5	70 - 130	30	
1,4-Dichlorobenzene	ND	99	98	1.0	83	84	1.2	70 - 130	30	
2,2-Dichloropropane	ND	90	88	2.2	73	72	1.4	70 - 130	30	
2-Chlorotoluene	ND	98	98	0.0	90	90	0.0	70 - 130	30	
2-Hexanone	ND	85	82	3.6	67	63	6.2	70 - 130	30	m
2-Isopropyltoluene	ND	97	96	1.0	88	89	1.1	70 - 130	30	
4-Chlorotoluene	ND	93	95	2.1	87	87	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	93	90	3.3	77	74	4.0	70 - 130	30	
Acetone	ND	66	63	4.7	126	112	11.8	70 - 130	30	l
Acrylonitrile	ND	83	77	7.5	69	69	0.0	70 - 130	30	m
Benzene	ND	93	93	0.0	91	89	2.2	70 - 130	30	
Bromobenzene	ND	98	98	0.0	96	93	3.2	70 - 130	30	
Bromochloromethane	ND	94	93	1.1	91	90	1.1	70 - 130	30	
Bromodichloromethane	ND	96	96	0.0	91	86	5.6	70 - 130	30	
Bromoform	ND	107	106	0.9	94	89	5.5	70 - 130	30	
Bromomethane	ND	97	88	9.7	86	85	1.2	70 - 130	30	
Carbon Disulfide	ND	85	82	3.6	80	81	1.2	70 - 130	30	
Carbon tetrachloride	ND	101	103	2.0	87	85	2.3	70 - 130	30	
Chlorobenzene	ND	101	101	0.0	92	91	1.1	70 - 130	30	
Chloroethane	ND	93	90	3.3	84	83	1.2	70 - 130	30	
Chloroform	ND	90	87	3.4	87	85	2.3	70 - 130	30	
Chloromethane	ND	74	66	11.4	68	71	4.3	70 - 130	30	l,m
cis-1,2-Dichloroethene	ND	93	91	2.2	87	86	1.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	94	94	0.0	86	82	4.8	70 - 130	30	
Dibromochloromethane	ND	103	102	1.0	93	91	2.2	70 - 130	30	
Dibromomethane	ND	96	96	0.0	90	84	6.9	70 - 130	30	
Dichlorodifluoromethane	ND	78	78	0.0	61	65	6.3	70 - 130	30	m
Ethylbenzene	ND	98	100	2.0	93	92	1.1	70 - 130	30	
Hexachlorobutadiene	ND	103	105	1.9	69	74	7.0	70 - 130	30	m
Isopropylbenzene	ND	97	99	2.0	97	95	2.1	70 - 130	30	
m&p-Xylene	ND	100	103	3.0	91	92	1.1	70 - 130	30	
Methyl ethyl ketone	ND	75	66	12.8	63	61	3.2	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	92	91	1.1	91	88	3.4	70 - 130	30	
Methylene chloride	ND	78	75	3.9	100	101	1.0	70 - 130	30	
Naphthalene	ND	99	94	5.2	66	67	1.5	70 - 130	30	m
n-Butylbenzene	ND	92	95	3.2	75	78	3.9	70 - 130	30	
n-Propylbenzene	ND	97	99	2.0	90	91	1.1	70 - 130	30	
o-Xylene	ND	101	103	2.0	93	93	0.0	70 - 130	30	
p-Isopropyltoluene	ND	97	99	2.0	85	87	2.3	70 - 130	30	

QA/QC Data

SDG I.D.: GBD96501

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
sec-Butylbenzene	ND	93	94	1.1	85	86	1.2	70 - 130	30	
Styrene	ND	99	100	1.0	81	82	1.2	70 - 130	30	
tert-Butylbenzene	ND	99	99	0.0	93	93	0.0	70 - 130	30	
Tetrachloroethene	ND	107	111	3.7	94	98	4.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	82	75	8.9	71	69	2.9	70 - 130	30	m
Toluene	ND	95	97	2.1	92	90	2.2	70 - 130	30	
trans-1,2-Dichloroethene	ND	94	88	6.6	84	86	2.4	70 - 130	30	
trans-1,3-Dichloropropene	ND	94	94	0.0	84	80	4.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	90	85	5.7	71	65	8.8	70 - 130	30	m
Trichloroethene	ND	103	106	2.9	96	95	1.0	70 - 130	30	
Trichlorofluoromethane	ND	96	94	2.1	81	85	4.8	70 - 130	30	
Trichlorotrifluoroethane	ND	99	99	0.0	82	89	8.2	70 - 130	30	
Vinyl chloride	ND	91	87	4.5	75	77	2.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	100	99	1.0	99	99	0.0	70 - 130	30	
% Bromofluorobenzene	98	95	97	2.1	90	89	1.1	70 - 130	30	
% Dibromofluoromethane	108	105	101	3.9	101	103	2.0	70 - 130	30	
% Toluene-d8	99	97	99	2.0	98	98	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 238157, QC Sample No: BD96511 (BD96509, BD96510, BD96511, BD96512, BD96513, BD96514 (50X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	103	105	1.9	107	104	2.8	70 - 130	30	
1,1,1-Trichloroethane	ND	92	92	0.0	103	100	3.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	85	86	1.2	89	89	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	102	102	0.0	102	101	1.0	70 - 130	30	
1,1-Dichloroethane	ND	86	87	1.2	96	92	4.3	70 - 130	30	
1,1-Dichloroethene	ND	87	89	2.3	94	101	7.2	70 - 130	30	
1,1-Dichloropropene	ND	96	97	1.0	105	102	2.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	103	97	6.0	89	82	8.2	70 - 130	30	
1,2,3-Trichloropropane	ND	84	91	8.0	94	92	2.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	102	98	4.0	89	83	7.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	96	96	0.0	99	98	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	105	104	1.0	103	101	2.0	70 - 130	30	
1,2-Dibromoethane	ND	101	101	0.0	104	100	3.9	70 - 130	30	
1,2-Dichlorobenzene	ND	97	97	0.0	98	95	3.1	70 - 130	30	
1,2-Dichloroethane	ND	95	94	1.1	100	96	4.1	70 - 130	30	
1,2-Dichloropropane	ND	92	93	1.1	96	95	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	95	96	1.0	100	100	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	98	97	1.0	99	96	3.1	70 - 130	30	
1,3-Dichloropropane	ND	93	94	1.1	99	95	4.1	70 - 130	30	
1,4-Dichlorobenzene	ND	97	99	2.0	98	95	3.1	70 - 130	30	
2,2-Dichloropropane	ND	90	89	1.1	95	95	0.0	70 - 130	30	
2-Chlorotoluene	ND	97	100	3.0	102	99	3.0	70 - 130	30	
2-Hexanone	ND	87	86	1.2	86	84	2.4	70 - 130	30	
2-Isopropyltoluene	ND	98	98	0.0	102	101	1.0	70 - 130	30	
4-Chlorotoluene	ND	94	94	0.0	98	97	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	95	96	1.0	93	90	3.3	70 - 130	30	
Acetone	ND	67	66	1.5	141	121	15.3	70 - 130	30	l,m
Acrylonitrile	ND	82	82	0.0	89	84	5.8	70 - 130	30	
Benzene	ND	95	95	0.0	101	101	0.0	70 - 130	30	
Bromobenzene	ND	99	101	2.0	105	103	1.9	70 - 130	30	
Bromochloromethane	ND	96	96	0.0	105	100	4.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBD96501

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromodichloromethane	ND	96	96	0.0	102	100	2.0	70 - 130	30
Bromoform	ND	109	110	0.9	111	107	3.7	70 - 130	30
Bromomethane	ND	93	92	1.1	104	96	8.0	70 - 130	30
Carbon Disulfide	ND	84	84	0.0	97	97	0.0	70 - 130	30
Carbon tetrachloride	ND	101	102	1.0	109	109	0.0	70 - 130	30
Chlorobenzene	ND	102	105	2.9	103	101	2.0	70 - 130	30
Chloroethane	ND	92	89	3.3	106	100	5.8	70 - 130	30
Chloroform	ND	88	89	1.1	99	96	3.1	70 - 130	30
Chloromethane	ND	73	70	4.2	86	81	6.0	70 - 130	30
cis-1,2-Dichloroethene	ND	95	94	1.1	100	99	1.0	70 - 130	30
cis-1,3-Dichloropropene	ND	96	96	0.0	98	97	1.0	70 - 130	30
Dibromochloromethane	ND	103	104	1.0	108	104	3.8	70 - 130	30
Dibromomethane	ND	98	95	3.1	101	99	2.0	70 - 130	30
Dichlorodifluoromethane	ND	73	72	1.4	92	92	0.0	70 - 130	30
Ethylbenzene	ND	100	102	2.0	105	104	1.0	70 - 130	30
Hexachlorobutadiene	ND	106	102	3.8	86	85	1.2	70 - 130	30
Isopropylbenzene	ND	100	103	3.0	105	105	0.0	70 - 130	30
m&p-Xylene	ND	102	104	1.9	106	104	1.9	70 - 130	30
Methyl ethyl ketone	ND	76	72	5.4	88	82	7.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	93	92	1.1	101	100	1.0	70 - 130	30
Methylene chloride	ND	76	75	1.3	91	91	0.0	70 - 130	30
Naphthalene	ND	99	97	2.0	93	87	6.7	70 - 130	30
n-Butylbenzene	ND	95	94	1.1	92	90	2.2	70 - 130	30
n-Propylbenzene	ND	98	100	2.0	102	102	0.0	70 - 130	30
o-Xylene	ND	105	107	1.9	107	105	1.9	70 - 130	30
p-Isopropyltoluene	ND	99	99	0.0	101	100	1.0	70 - 130	30
sec-Butylbenzene	ND	95	96	1.0	99	99	0.0	70 - 130	30
Styrene	ND	99	101	2.0	103	99	4.0	70 - 130	30
tert-Butylbenzene	ND	100	101	1.0	103	104	1.0	70 - 130	30
Tetrachloroethene	ND	111	114	2.7	115	111	3.5	70 - 130	30
Tetrahydrofuran (THF)	ND	83	82	1.2	88	85	3.5	70 - 130	30
Toluene	ND	99	99	0.0	103	102	1.0	70 - 130	30
trans-1,2-Dichloroethene	ND	92	93	1.1	100	97	3.0	70 - 130	30
trans-1,3-Dichloropropene	ND	95	94	1.1	99	94	5.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	91	90	1.1	89	85	4.6	70 - 130	30
Trichloroethene	ND	108	109	0.9	112	113	0.9	70 - 130	30
Trichlorofluoromethane	ND	93	93	0.0	106	103	2.9	70 - 130	30
Trichlorotrifluoroethane	ND	99	98	1.0	108	108	0.0	70 - 130	30
Vinyl chloride	ND	86	89	3.4	95	93	2.1	70 - 130	30
% 1,2-dichlorobenzene-d4	103	100	99	1.0	100	101	1.0	70 - 130	30
% Bromofluorobenzene	93	96	95	1.0	93	93	0.0	70 - 130	30
% Dibromofluoromethane	104	102	100	2.0	105	105	0.0	70 - 130	30
% Toluene-d8	99	99	98	1.0	97	98	1.0	70 - 130	30

Comment:

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

QA/QC Batch 238177, QC Sample No: BD98183 (BD96501, BD96502, BD96503, BD96504)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	108	103	4.7				70 - 130	30
1,1,1-Trichloroethane	ND	126	116	8.3				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	91	90	1.1				70 - 130	30
1,1,2-Trichloroethane	ND	103	101	2.0				70 - 130	30
1,1-Dichloroethane	ND	117	108	8.0				70 - 130	30

QA/QC Data

SDG I.D.: GBD96501

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1-Dichloroethene	ND	105	96	9.0				70 - 130	30
1,1-Dichloropropene	ND	114	105	8.2				70 - 130	30
1,2,3-Trichlorobenzene	ND	99	97	2.0				70 - 130	30
1,2,3-Trichloropropane	ND	100	100	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	98	95	3.1				70 - 130	30
1,2,4-Trimethylbenzene	ND	119	112	6.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	99	100	1.0				70 - 130	30
1,2-Dibromoethane	ND	107	104	2.8				70 - 130	30
1,2-Dichlorobenzene	ND	100	98	2.0				70 - 130	30
1,2-Dichloroethane	ND	121	115	5.1				70 - 130	30
1,2-Dichloropropane	ND	109	101	7.6				70 - 130	30
1,3,5-Trimethylbenzene	ND	116	111	4.4				70 - 130	30
1,3-Dichlorobenzene	ND	105	100	4.9				70 - 130	30
1,3-Dichloropropane	ND	96	94	2.1				70 - 130	30
1,4-Dichlorobenzene	ND	101	96	5.1				70 - 130	30
2,2-Dichloropropane	ND	118	107	9.8				70 - 130	30
2-Chlorotoluene	ND	117	110	6.2				70 - 130	30
2-Hexanone	ND	125	129	3.1				70 - 130	30
2-Isopropyltoluene	ND	116	111	4.4				70 - 130	30
4-Chlorotoluene	ND	110	103	6.6				70 - 130	30
4-Methyl-2-pentanone	ND	128	129	0.8				70 - 130	30
Acetone	ND	97	94	3.1				70 - 130	30
Acrylonitrile	ND	114	115	0.9				70 - 130	30
Benzene	ND	98	91	7.4				70 - 130	30
Bromobenzene	ND	98	93	5.2				70 - 130	30
Bromochloromethane	ND	107	103	3.8				70 - 130	30
Bromodichloromethane	ND	114	105	8.2				70 - 130	30
Bromoform	ND	103	103	0.0				70 - 130	30
Bromomethane	ND	105	97	7.9				70 - 130	30
Carbon Disulfide	ND	96	89	7.6				70 - 130	30
Carbon tetrachloride	ND	124	114	8.4				70 - 130	30
Chlorobenzene	ND	102	96	6.1				70 - 130	30
Chloroethane	ND	113	104	8.3				70 - 130	30
Chloroform	ND	113	104	8.3				70 - 130	30
Chloromethane	ND	133	118	12.0				70 - 130	30
cis-1,2-Dichloroethene	ND	113	105	7.3				70 - 130	30
cis-1,3-Dichloropropene	ND	105	99	5.9				70 - 130	30
Dibromochloromethane	ND	113	109	3.6				70 - 130	30
Dibromomethane	ND	101	98	3.0				70 - 130	30
Dichlorodifluoromethane	ND	117	103	12.7				70 - 130	30
Ethylbenzene	ND	103	98	5.0				70 - 130	30
Hexachlorobutadiene	ND	102	98	4.0				70 - 130	30
Isopropylbenzene	ND	119	112	6.1				70 - 130	30
m&p-Xylene	ND	104	98	5.9				70 - 130	30
Methyl ethyl ketone	ND	107	106	0.9				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	107	104	2.8				70 - 130	30
Methylene chloride	ND	109	99	9.6				70 - 130	30
Naphthalene	ND	123	127	3.2				70 - 130	30
n-Butylbenzene	ND	111	107	3.7				70 - 130	30
n-Propylbenzene	ND	115	109	5.4				70 - 130	30
o-Xylene	ND	108	102	5.7				70 - 130	30
p-Isopropyltoluene	ND	118	113	4.3				70 - 130	30
sec-Butylbenzene	ND	114	108	5.4				70 - 130	30

QA/QC Data

SDG I.D.: GBD96501

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Styrene	ND	100	95	5.1				70 - 130	30
tert-Butylbenzene	ND	124	117	5.8				70 - 130	30
Tetrachloroethene	ND	104	97	7.0				70 - 130	30
Tetrahydrofuran (THF)	ND	127	124	2.4				70 - 130	30
Toluene	ND	104	96	8.0				70 - 130	30
trans-1,2-Dichloroethene	ND	111	102	8.5				70 - 130	30
trans-1,3-Dichloropropene	ND	108	101	6.7				70 - 130	30
trans-1,4-dichloro-2-butene	ND	92	91	1.1				70 - 130	30
Trichloroethene	ND	114	107	6.3				70 - 130	30
Trichlorofluoromethane	ND	110	100	9.5				70 - 130	30
Trichlorotrifluoroethane	ND	101	95	6.1				70 - 130	30
Vinyl chloride	ND	116	103	11.9				70 - 130	30
% 1,2-dichlorobenzene-d4	104	99	100	1.0				70 - 130	30
% Bromofluorobenzene	99	103	104	1.0				70 - 130	30
% Dibromofluoromethane	102	103	99	4.0				70 - 130	30
% Toluene-d8	96	98	98	0.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

Additional 8260 criteria: 10% of 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.

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 02, 2013

Sample Criteria Exceedences Report

GBD96501 - MAGU-DAS

Requested Criteria: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD96506	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1100	280	1000	1000	ug/Kg
BD96506	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1100	280	1000	1000	ug/Kg
BD96506	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1200	280	1000	1000	ug/Kg
BD96506	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1400	280	1000	1000	ug/Kg
BD96506	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1400	280	1000	1000	ug/Kg
BD96506	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	310	100	100	ug/Kg
BD96506	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	310	200	200	ug/Kg
BD96506	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	310	200	200	ug/Kg
BD96506	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	310	110	110	ug/Kg
BD96506	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	310	100	100	ug/Kg
BD96506	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/k	ND	310	7	7	ug/Kg
BD96506	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	180	100	100	ug/Kg
BD96506	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	310	200	200	ug/Kg
BD96506	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	180	100	100	ug/Kg
BD96506	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1200	61	500	500	mg/Kg

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGU-DAS

Project Location: MIDDLETOWN SEWER PROJE **Project Number:**

Laboratory Sample ID(s): BD96501, BD96502, BD96503, BD96504, BD96505, BD96506, BD96507, BD96508, BD96509, BD96510, BD96511, BD96512, BD96513, BD96514

Sampling Date(s): 6/25/2013

RCP Methods Used:

☑ 1311/1312 ☑ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☐ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: Rmakol

Date: Tuesday, July 02, 2013

Printed Name: Rashmi Makol

Position: Project Manager

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

Not all requested reporting levels were achieved due to the presence of target and non target compounds.

ETPH Narration

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

Instrument: Au-fid1 06/30/13-1 (BD96511)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 6/30/2013

Instrument: Au-fid84 06/27/13-2 (BD96507, BD96508, BD96509, BD96510, BD96512)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 6/27/2013

Instrument: Au-xl2 06/26/13-2 (BD96501, BD96502, BD96503, BD96504, BD96505, BD96506)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

Printed Name Jeff Bucko
Position: Chemist
Date: 6/26/2013

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

QC Comments: QC Batch 237120 06/24/13 (BD96508, BD96509, BD96510, BD96511, BD96512)

*The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within QA/QC criteria.

QC (Batch Specific)

---------- Sample No: BD96155, QA/QC Batch: 237119 ----------

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.

---------- Sample No: BD96278, QA/QC Batch: 237120 ----------

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.

ICP Narration

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

Instrument: Blue 06/26/13-1 (BD96501, BD96502, BD96503, BD96504, BD96505, BD96506, BD96507, BD96508, BD96509, BD96510, BD96511, BD96512)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 6/26/2013

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

QC (Site Specific)

---------- Sample No: BD96510, QA/QC Batch: 237315 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD95595, QA/QC Batch: 237385 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD96858, QA/QC Batch: 237314 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PAH Narration

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

Instrument: Chem12 06/26/13-1 (BD96501, BD96502, BD96503, BD96504, BD96505, BD96506, BD96507, BD96508, BD96509, BD96510, BD96511)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM12/BN_0620):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM12/0626_02-BN_0620):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

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.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/26/2013

QC (Batch Specific)

---------- Sample No: BD96139, QA/QC Batch: 237110 ----------

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.

SVOA Narration

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

Instrument: Chem19 06/26/13-1 (BD96512)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM19/SV_0626):
100% of target compounds met criteria.
The following compounds had %RSDs >0%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM19/0626_10-SV_0626):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.072)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/26/2013

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

QC (Batch Specific)

---------- Sample No: BD96139, QA/QC Batch: 237110 ----------

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.

VOA Narration

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

QC Batch 238138 (Samples: BD96505, BD96506, BD96507, BD96508): -----

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is likely. (Methyl ethyl ketone)

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is possible. (Chloromethane)

The LCS/LCSD recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is possible. (Acetone)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Hexanone, Acrylonitrile, Dichlorodifluoromethane, Hexachlorobutadiene, Naphthalene, Tetrahydrofuran (THF), trans-1,4-dichloro-2-butene)

QC Batch 238157 (Samples: BD96509, BD96510, BD96511, BD96512, BD96513, BD96514): -----

***** This was most likely an error and needs to be corrected before report is sent. (Acetone)**

QC Batch 238177 (Samples: BD96501, BD96502, BD96503, BD96504): -----

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

Instrument: Chem03 06/28/13-1 (BD96501, BD96502, BD96503, BD96504)

Initial Calibration Verification (CHEM03/RCPS_0619):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (23%), Naphthalene (26%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0628L03-RCPS_0619):
95% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: 2-hexanone (-36%)[30%], Chloromethane (-55%)[30%], Dichlorodifluoromethane (-54%)[30%], Methyl Ethyl Ketone (-32%)[30%]
The following compounds did not meet maximum % deviations: None.

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

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

Printed Name Caleb Githinji
Position: Chemist
Date: 6/28/2013

Instrument: Chem15 06/29/13-1 (BD96505, BD96506, BD96507, BD96508)

Initial Calibration Verification (CHEM15/RCPS_0627):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Methylene Chloride (21%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification #1 (CHEM15/0629B03-RCPS_0627):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Continuing Calibration Verification #2 (CHEM15/0629B04-RCPS_0627):
99% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: Dichlorodifluoromethane (33%)[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.

Printed Name Caleb Githinji
Position: Chemist
Date: 6/29/2013

Instrument: Chem15 06/30/13-1 (BD96509, BD96510, BD96511, BD96512, BD96513, BD96514)

Initial Calibration Verification (CHEM15/RCPS_0627):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Methylene Chloride (21%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification #1 (CHEM15/0630B03-RCPS_0627):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Continuing Calibration Verification #2 (CHEM15/0630B04-RCPS_0627):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: None.

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

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.

Printed Name Ashraf Sheikh
Position: Chemist
Date: 6/30/2013

QC Comments: QC Batch 238177 06/28/13 (BD96501, BD96502, BD96503, BD96504)

The MS/MSD are not reported for this batch.

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

QC (Site Specific)

---------- Sample No: BD96508, QA/QC Batch: 238138 ----------

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(63%), Chloromethane(66%), Methyl ethyl ketone(66%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(62%), 1,2,4-Trichlorobenzene(64%), 2-Hexanone(67%), Acrylonitrile(69%), Chloromethane(68%), Dichlorodifluoromethane(61%), Hexachlorobutadiene(69%), Methyl ethyl ketone(63%), Naphthalene(66%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(64%), 1,2,4-Trichlorobenzene(67%), 2-Hexanone(63%), Acrylonitrile(69%), Dichlorodifluoromethane(65%), Methyl ethyl ketone(61%), Naphthalene(67%), Tetrahydrofuran (THF)(69%), trans-1,4-dichloro-2-butene(65%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD96511, QA/QC Batch: 238157 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(67%)

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

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(141%)

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.

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.

QC (Batch Specific)

---------- Sample No: BD98183, QA/QC Batch: 238177 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Chloromethane(133%)

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.

Temperature Narration

The samples were received at 3C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD96501

Cooler: Yes [✓] No [ ]
Coolant: IPK [ ] ICE [✓] No [ ]

Temp 3 °C Pg 1 of 2

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Contact Options:
[ ] Fax:
[✓] Phone: 8605633158
[✓] Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire Inc.
Address: 2080 Silas Deane Hwy.
Rocky Hill CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6/29/13

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs 8260	PAHs 8270	CT ETPH	Total Lead	SPLP Lead	Soil VOA Vials [ ] methanol [✓] H2O	GL Soil container (9) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
96501	PSGP-47 1'-5'	S	6-25-13	5:30am	X	X	X	X	X		1/2	1							
96502	PSGP-47 10'-15'			5:40am															
96503	PSGP-47 15'-20'			5:50am															
96504	PSGP-49 1'-5'			8:55															
96505	PSGP-49 5'-10'			9:15															
96506	PSGP-49 15'-20'			9:40															
96507	PSGP-49 25'-30'			10:45am															
96508	PSGP-51A 35'-40'			7:20am															
96509	PSGP-51A 25'-30'			6:55am															
96510	PSGP-53 1'-5'			11:30															
96511	PSGP-53 10'-15'			11:55															
96512	PSGP-53 25'-30'			12:40pm															

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6-25-13	1332

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 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

Cooler: Yes [ ] No [ ]
Coolant: IPK [ ] ICE [✓] No [ ]

Temp 3 °C Pg 2 of 2

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Contact Options:
[ ] Fax:
[✓] Phone: 8605633158
[✓] Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire Inc.
Address: 2080 Silas Deane Hwy
Rocky Hill CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6-25-13

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs - 8260	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 [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
96513	TB-1 Low	GW	6-25-13	-	X	2									
96514	TB-1 High	↓	↓	-	X	1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6-25-13	1332

Comments, Special Requirements or Regulations:

Turnaround:
[ ] 1 Day*
[ ] 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

PHOENIX
Environmental Laboratories, Inc.

Tuesday, July 02, 2013

Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: MIDDLETOWN SEWER PROJECT
Sample ID#s: BD95942 - BD95954

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	11:40
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95942

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-48 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	4.72	0.36	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.044	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	93		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FT	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	53	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	82		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	06/28/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-48 2-5 FT

Phoenix I.D.: BD95942

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
2-Hexanone	ND	27	ug/Kg	06/28/13	H/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	06/28/13	H/J	SW8260
Acetone	ND	33	ug/Kg	06/28/13	H/J	SW8260
Acrylonitrile	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Benzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromoform	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromomethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Chloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Chloroform	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Chloromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	06/28/13	H/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	06/28/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/28/13	H/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Naphthalene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
o-Xylene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Styrene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-48 2-5 FT

Phoenix I.D.: BD95942

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/28/13	H/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	96		%	06/28/13	H/J	70 - 130 %
% Bromofluorobenzene	94		%	06/28/13	H/J	70 - 130 %
% Dibromofluoromethane	99		%	06/28/13	H/J	70 - 130 %
% Toluene-d8	98		%	06/28/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	240	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	240	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	85		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	77		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	89		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95942

Client ID: PSGP-48 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	12:00
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95943

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-48 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	8.32	0.36	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.011	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	88		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FT	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	55	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	79		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	06/28/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-48 15-20 FT

Phoenix I.D.: BD95943

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/28/13	H/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/28/13	H/J	SW8260
Acetone	ND	35	ug/Kg	06/28/13	H/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Benzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromoform	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromomethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Chloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Chloroform	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Chloromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	06/28/13	H/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/28/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	H/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Naphthalene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
o-Xylene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Styrene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-48 15-20 FT

Phoenix I.D.: BD95943

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	H/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	06/28/13	H/J	70 - 130 %
% Bromofluorobenzene	93		%	06/28/13	H/J	70 - 130 %
% Dibromofluoromethane	86		%	06/28/13	H/J	70 - 130 %
% Toluene-d8	97		%	06/28/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	79		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	72		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	87		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95943

Client ID: PSGP-48 15-20 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	6:50
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95944

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	12.6	0.37	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.068	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	91		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	JJ/FT	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	75		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	06/28/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 2-5 FT

Phoenix I.D.: BD95944

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
2-Hexanone	ND	27	ug/Kg	06/28/13	H/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	06/28/13	H/J	SW8260
Acetone	ND	33	ug/Kg	06/28/13	H/J	SW8260
Acrylonitrile	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Benzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromoform	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Bromomethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Chloroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Chloroform	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Chloromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	06/28/13	H/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	06/28/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/28/13	H/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Naphthalene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
o-Xylene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Styrene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 2-5 FT

Phoenix I.D.: BD95944

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/28/13	H/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	06/28/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	06/28/13	H/J	70 - 130 %
% Bromofluorobenzene	94		%	06/28/13	H/J	70 - 130 %
% Dibromofluoromethane	100		%	06/28/13	H/J	70 - 130 %
% Toluene-d8	97		%	06/28/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	81		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	69		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	79		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95944

Client ID: PSGP-50 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	7:00
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95945

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 9-13 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	18.1	0.35	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.045	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	89		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	56	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	82		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	06/28/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 9-13 FT

Phoenix I.D.: BD95945

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
2-Hexanone	ND	27	ug/Kg	06/28/13	H/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	06/28/13	H/J	SW8260
Acetone	ND	33	ug/Kg	06/28/13	H/J	SW8260
Acrylonitrile	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Benzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Bromoform	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Bromomethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Chloroethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Chloroform	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Chloromethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	06/28/13	H/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	06/28/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/28/13	H/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Naphthalene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
o-Xylene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Styrene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 9-13 FT

Phoenix I.D.: BD95945

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/28/13	H/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	06/28/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	06/28/13	H/J	70 - 130 %
% Bromofluorobenzene	92		%	06/28/13	H/J	70 - 130 %
% Dibromofluoromethane	83		%	06/28/13	H/J	70 - 130 %
% Toluene-d8	95		%	06/28/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	85		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	74		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	109		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95945

Client ID: PSGP-50 9-13 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	7:10
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95946

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 15-17 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	17.3	0.38	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.272	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	85		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	58	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	87		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	06/28/13	H/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichloropropane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 15-17 FT

Phoenix I.D.: BD95946

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichlorobenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
2-Hexanone	ND	30	ug/Kg	06/28/13	H/J	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
4-Chlorotoluene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	06/28/13	H/J	SW8260
Acetone	ND	36	ug/Kg	06/28/13	H/J	SW8260
Acrylonitrile	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Benzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Bromobenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Bromoform	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Bromomethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Chloroethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Chloroform	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Chloromethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	06/28/13	H/J	SW8260
Dibromomethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Hexachlorobutadiene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Isopropylbenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	06/28/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	H/J	SW8260
Methylene chloride	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Naphthalene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
o-Xylene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
sec-Butylbenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Styrene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-50 15-17 FT

Phoenix I.D.: BD95946

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Total Xylenes	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	H/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	06/28/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	97		%	06/28/13	H/J	70 - 130 %
% Bromofluorobenzene	93		%	06/28/13	H/J	70 - 130 %
% Dibromofluoromethane	86		%	06/28/13	H/J	70 - 130 %
% Toluene-d8	98		%	06/28/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	85		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	81		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	104		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95946

Client ID: PSGP-50 15-17 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	8:15
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95947

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	16.1	0.35	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.025	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	85		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	57	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	85		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	06/28/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51 2-5 FT

Phoenix I.D.: BD95947

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/28/13	H/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/28/13	H/J	SW8260
Acetone	ND	35	ug/Kg	06/28/13	H/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Benzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Bromoform	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Bromomethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Chloroethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Chloroform	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Chloromethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	06/28/13	H/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/28/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	H/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Naphthalene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
o-Xylene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Styrene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51 2-5 FT

Phoenix I.D.: BD95947

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	H/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	06/28/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	96		%	06/28/13	H/J	70 - 130 %
% Bromofluorobenzene	90		%	06/28/13	H/J	70 - 130 %
% Dibromofluoromethane	103		%	06/28/13	H/J	70 - 130 %
% Toluene-d8	96		%	06/28/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	89		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	86		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	104		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95947

Client ID: PSGP-51 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	8:20
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95948

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51 10-15 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	56.4	0.39	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.062	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	84		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	120	mg/Kg	06/28/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/28/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	79		%	06/28/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	06/28/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51 10-15 FT

Phoenix I.D.: BD95948

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/28/13	H/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/28/13	H/J	SW8260
Acetone	ND	35	ug/Kg	06/28/13	H/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Benzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromoform	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Bromomethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Chloroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Chloroform	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Chloromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	06/28/13	H/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/28/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	H/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Naphthalene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
o-Xylene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Styrene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	H/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-51 10-15 FT

Phoenix I.D.: BD95948

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	H/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	06/28/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	97		%	06/28/13	H/J	70 - 130 %
% Bromofluorobenzene	87		%	06/28/13	H/J	70 - 130 %
% Dibromofluoromethane	103		%	06/28/13	H/J	70 - 130 %
% Toluene-d8	96		%	06/28/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	270	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	88		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	84		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	106		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95948

Client ID: PSGP-51 10-15 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	8:55
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95949

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	5.97	0.36	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.045	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	92		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	83		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	06/26/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,1-Dichloroethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,1-Dichloroethene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,1-Dichloropropene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 2-5 FT

Phoenix I.D.: BD95949

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,2-Dichloroethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,2-Dichloropropane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,3-Dichloropropane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
2,2-Dichloropropane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
2-Chlorotoluene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
2-Hexanone	ND	26	ug/Kg	06/26/13	R/J	SW8260
2-Isopropyltoluene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
4-Chlorotoluene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	06/26/13	R/J	SW8260
Acetone	ND	31	ug/Kg	06/26/13	R/J	SW8260
Acrylonitrile	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Benzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Bromobenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Bromochloromethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Bromodichloromethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Bromoform	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Bromomethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Carbon Disulfide	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Carbon tetrachloride	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Chlorobenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Chloroethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Chloroform	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Chloromethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	06/26/13	R/J	SW8260
Dibromomethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Ethylbenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Hexachlorobutadiene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Isopropylbenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
m&p-Xylene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	06/26/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	06/26/13	R/J	SW8260
Methylene chloride	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Naphthalene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
n-Butylbenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
n-Propylbenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
o-Xylene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
p-Isopropyltoluene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
sec-Butylbenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Styrene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
tert-Butylbenzene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Tetrachloroethene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	06/26/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 2-5 FT

Phoenix I.D.: BD95949

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Total Xylenes	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	06/26/13	R/J	SW8260
Trichloroethene	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Trichlorofluoromethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
Vinyl chloride	ND	5.2	ug/Kg	06/26/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	06/26/13	R/J	70 - 130 %
% Bromofluorobenzene	98		%	06/26/13	R/J	70 - 130 %
% Dibromofluoromethane	96		%	06/26/13	R/J	70 - 130 %
% Toluene-d8	98		%	06/26/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	250	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	90		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	82		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	108		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95949

Client ID: PSGP-52 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	9:15
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95950

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 13-15 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	38.5	0.35	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	0.019	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	87		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	110	mg/Kg	06/28/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/28/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	88		%	06/28/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	06/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloropropene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 13-15 FT

Phoenix I.D.: BD95950

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
2,2-Dichloropropane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
2-Chlorotoluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
2-Hexanone	ND	29	ug/Kg	06/28/13	R/J	SW8260
2-Isopropyltoluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
4-Chlorotoluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	06/28/13	R/J	SW8260
Acetone	ND	35	ug/Kg	06/28/13	R/J	SW8260
Acrylonitrile	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Benzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromochloromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromodichloromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromoform	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Bromomethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Carbon Disulfide	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Carbon tetrachloride	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Chlorobenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Chloroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Chloroform	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Chloromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	06/28/13	R/J	SW8260
Dibromomethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Ethylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Hexachlorobutadiene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Isopropylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
m&p-Xylene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	06/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	R/J	SW8260
Methylene chloride	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Naphthalene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
n-Butylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
n-Propylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
o-Xylene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
p-Isopropyltoluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
sec-Butylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Styrene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
tert-Butylbenzene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Tetrachloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 13-15 FT

Phoenix I.D.: BD95950

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Total Xylenes	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	R/J	SW8260
Trichloroethene	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Trichlorofluoromethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
Vinyl chloride	ND	5.9	ug/Kg	06/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	06/28/13	R/J	70 - 130 %
% Bromofluorobenzene	92		%	06/28/13	R/J	70 - 130 %
% Dibromofluoromethane	105		%	06/28/13	R/J	70 - 130 %
% Toluene-d8	100		%	06/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	340	270	ug/Kg	06/25/13	DD	SW 8270
Anthracene	410	270	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	2600	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	2700	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	3300	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	1100	270	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	1200	270	ug/Kg	06/25/13	DD	SW 8270
Chrysene	2400	270	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	330	270	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	4800	270	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	1100	270	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	1200	270	ug/Kg	06/25/13	DD	SW 8270
Pyrene	4500	270	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	94		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	87		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	107		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95950

Client ID: PSGP-52 13-15 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	9:40
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95951

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 23-25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	3.75	0.39	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	80		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	62	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	94		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	06/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloropropene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 23-25 FT

Phoenix I.D.: BD95951

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloroethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloropropane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichloropropane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
2,2-Dichloropropane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
2-Chlorotoluene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
2-Hexanone	ND	31	ug/Kg	06/28/13	R/J	SW8260
2-Isopropyltoluene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
4-Chlorotoluene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	06/28/13	R/J	SW8260
Acetone	ND	37	ug/Kg	06/28/13	R/J	SW8260
Acrylonitrile	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Benzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Bromobenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Bromochloromethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Bromodichloromethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Bromoform	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Bromomethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Carbon Disulfide	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Carbon tetrachloride	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Chlorobenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Chloroethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Chloroform	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Chloromethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Dibromochloromethane	ND	3.7	ug/Kg	06/28/13	R/J	SW8260
Dibromomethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Ethylbenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Hexachlorobutadiene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Isopropylbenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
m&p-Xylene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	06/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	06/28/13	R/J	SW8260
Methylene chloride	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Naphthalene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
n-Butylbenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
n-Propylbenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
o-Xylene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
p-Isopropyltoluene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
sec-Butylbenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Styrene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
tert-Butylbenzene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Tetrachloroethene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 23-25 FT

Phoenix I.D.: BD95951

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Total Xylenes	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	06/28/13	R/J	SW8260
Trichloroethene	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Trichlorofluoromethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
Vinyl chloride	ND	6.1	ug/Kg	06/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	06/28/13	R/J	70 - 130 %
% Bromofluorobenzene	89		%	06/28/13	R/J	70 - 130 %
% Dibromofluoromethane	101		%	06/28/13	R/J	70 - 130 %
% Toluene-d8	101		%	06/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	290	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	290	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	75		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	81		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	106		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95951

Client ID: PSGP-52 23-25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	10:15
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95952

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 31-35 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	1.67	0.39	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	78		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	PS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	62	mg/Kg	06/25/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/25/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	80		%	06/25/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	4.5	ug/Kg	06/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloropropene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 31-35 FT

Phoenix I.D.: BD95952

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloroethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloropropane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichloropropane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
2,2-Dichloropropane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
2-Chlorotoluene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
2-Hexanone	ND	38	ug/Kg	06/28/13	R/J	SW8260
2-Isopropyltoluene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
4-Chlorotoluene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	38	ug/Kg	06/28/13	R/J	SW8260
Acetone	ND	45	ug/Kg	06/28/13	R/J	SW8260
Acrylonitrile	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Benzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Bromobenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Bromochloromethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Bromodichloromethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Bromoform	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Bromomethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Carbon Disulfide	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Carbon tetrachloride	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Chlorobenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Chloroethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Chloroform	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Chloromethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Dibromochloromethane	ND	4.5	ug/Kg	06/28/13	R/J	SW8260
Dibromomethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Ethylbenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Hexachlorobutadiene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Isopropylbenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
m&p-Xylene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	45	ug/Kg	06/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	06/28/13	R/J	SW8260
Methylene chloride	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Naphthalene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
n-Butylbenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
n-Propylbenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
o-Xylene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
p-Isopropyltoluene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
sec-Butylbenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Styrene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
tert-Butylbenzene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Tetrachloroethene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-52 31-35 FT

Phoenix I.D.: BD95952

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Total Xylenes	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	06/28/13	R/J	SW8260
Trichloroethene	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Trichlorofluoromethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
Vinyl chloride	ND	7.5	ug/Kg	06/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	06/28/13	R/J	70 - 130 %
% Bromofluorobenzene	89		%	06/28/13	R/J	70 - 130 %
% Dibromofluoromethane	103		%	06/28/13	R/J	70 - 130 %
% Toluene-d8	100		%	06/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	300	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	300	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	93		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	87		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	116		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95952

Client ID: PSGP-52 31-35 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	CK	06/24/13	12:50
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95953

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-56 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead	10.1	0.35	mg/Kg	06/25/13	LK	SW6010
SPLP Lead	< 0.010	0.010	mg/L	06/25/13	EK	SW6010
SPLP Metals Digestion	Completed			06/24/13	H/H	SW846-3005
Percent Solid	89		%	06/24/13	JL	E160.3
Soil Extraction SVOA PAH	Completed			06/24/13	NJ/FV	SW3545
Extraction of CT ETPH	Completed			06/24/13	SS/F	3545
SPLP Extraction for Metals	Completed			06/24/13	H	EPA 1312
Total Metals Digest	Completed			06/24/13	Z/AG	SW846 - 3050
Field Extraction	Completed			06/24/13		SW5035
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	54	mg/Kg	06/28/13	JRB	CT ETPH/8015
Identification	ND		mg/Kg	06/28/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	90		%	06/28/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	06/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-56 2-5 FT

Phoenix I.D.: BD95953

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dibromoethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	06/28/13	R/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	06/28/13	R/J	SW8260
Acetone	ND	33	ug/Kg	06/28/13	R/J	SW8260
Acrylonitrile	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Benzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Bromoform	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Bromomethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Chloroethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Chloroform	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Chloromethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	06/28/13	R/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	06/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	06/28/13	R/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Naphthalene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
o-Xylene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Styrene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	06/28/13	R/J	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: PSGP-56 2-5 FT

Phoenix I.D.: BD95953

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Toluene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	06/28/13	R/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	06/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	06/28/13	R/J	70 - 130 %
% Bromofluorobenzene	87		%	06/28/13	R/J	70 - 130 %
% Dibromofluoromethane	105		%	06/28/13	R/J	70 - 130 %
% Toluene-d8	99		%	06/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	06/25/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	87		%	06/25/13	DD	30 - 130 %
% Nitrobenzene-d5	81		%	06/25/13	DD	30 - 130 %
% Terphenyl-d14	109		%	06/25/13	DD	30 - 130 %

Project ID: MIDDLETOWN SEWER PROJECT

Phoenix I.D.: BD95953

Client ID: PSGP-56 2-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

July 02, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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 02, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	CK	06/24/13	13:05
Location Code:	MAGU-DAS	Received by:	LB	06/24/13	13:43
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBD95942
Phoenix ID: BD95954

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FB-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Lead (Dissolved)	< 0.002	0.002	mg/L	06/25/13	LK	SW6010
Lead	< 0.002	0.002	mg/L	06/27/13	LK	SW6010
Extraction of CT ETPH	Completed			06/24/13	I/X	3510/3520
Semi-Volatile Extraction	Completed			06/26/13	I/X/D	SW3520
Dissolved Metals Preparation	Completed			06/24/13	AG	SW846-3005
Total Metals Digestion	Completed			06/24/13	AG	SW846 - 3050
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	0.078	mg/L	06/27/13	JRB	CTETPH/8015D
Identification	ND		mg/L	06/27/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	71		%	06/27/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	06/27/13	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	06/27/13	H/T	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FB-1

Phoenix I.D.: BD95954

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
1,2-Dichloropropane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	06/27/13	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	06/27/13	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	06/27/13	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	06/27/13	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	06/27/13	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	06/27/13	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	06/27/13	H/T	SW8260
Acetone	ND	25	ug/L	06/27/13	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	06/27/13	H/T	SW8260
Benzene	ND	0.70	ug/L	06/27/13	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	06/27/13	H/T	SW8260
Bromoform	ND	1.0	ug/L	06/27/13	H/T	SW8260
Bromomethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	06/27/13	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	06/27/13	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Chloroethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
Chloroform	ND	1.0	ug/L	06/27/13	H/T	SW8260
Chloromethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	06/27/13	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	06/27/13	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	06/27/13	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	06/27/13	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	06/27/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	06/27/13	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	06/27/13	H/T	SW8260
Naphthalene	ND	1.0	ug/L	06/27/13	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
o-Xylene	ND	1.0	ug/L	06/27/13	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	06/27/13	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Styrene	ND	1.0	ug/L	06/27/13	H/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	06/27/13	H/T	SW8260
Toluene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	06/27/13	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	06/27/13	H/T	SW8260

Project ID: MIDDLETOWN SEWER PROJECT
Client ID: FB-1

Phoenix I.D.: BD95954

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	0.50	ug/L	06/27/13	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	06/27/13	H/T	SW8260
Trichloroethene	ND	1.0	ug/L	06/27/13	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	06/27/13	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	06/27/13	H/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	108		%	06/27/13	H/T	70 - 130 %
% Bromofluorobenzene	91		%	06/27/13	H/T	70 - 130 %
% Dibromofluoromethane	95		%	06/27/13	H/T	70 - 130 %
% Toluene-d8	98		%	06/27/13	H/T	70 - 130 %
Semivolatiles by SIM						
2-Methylnaphthalene	ND	0.10	ug/L	06/30/13	DD	8270(SIM)
Acenaphthene	ND	0.10	ug/L	06/30/13	DD	8270(SIM)
Acenaphthylene	ND	0.10	ug/L	06/30/13	DD	8270(SIM)
Anthracene	ND	0.10	ug/L	06/30/13	DD	8270(SIM)
Benz(a)anthracene	0.03	0.020	ug/L	06/30/13	DD	8270(SIM)
Benzo(a)pyrene	ND	0.020	ug/L	06/30/13	DD	8270(SIM)
Benzo(b)fluoranthene	ND	0.020	ug/L	06/30/13	DD	8270(SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	06/30/13	DD	8270(SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	06/30/13	DD	8270(SIM)
Chrysene	ND	0.020	ug/L	06/30/13	DD	8270(SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	06/30/13	DD	8270(SIM)
Fluoranthene	ND	0.10	ug/L	06/30/13	DD	8270(SIM)
Fluorene	ND	0.10	ug/L	06/30/13	DD	8270(SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	06/30/13	DD	8270(SIM)
Naphthalene	0.29	0.10	ug/L	06/30/13	DD	8270(SIM)
Phenanthrene	ND	0.070	ug/L	06/30/13	DD	8270(SIM)
Pyrene	ND	0.10	ug/L	06/30/13	DD	8270(SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	87		%	06/30/13	DD	30 - 130 %
% Nitrobenzene-d5	102		%	06/30/13	DD	30 - 130 %
% Terphenyl-d14	86		%	06/30/13	DD	30 - 130 %

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

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
July 02, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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 02, 2013

QA/QC Data

SDG I.D.: GBD95942

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 236421, QC Sample No: BD93915 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953)												
ICP Metals - SPLP Extraction												
Lead	BRL	<0.010	<0.010	NC	103	106	2.9	103	102	1.0	75 - 125	20
QA/QC Batch 237044, QC Sample No: BD95949 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953)												
ICP Metals - Soil												
Lead	BRL	5.97	5.06	16.5	99.2	96.9	2.3	93.1	93.9	0.9	75 - 125	30
QA/QC Batch 237045, QC Sample No: BD95954 (BD95954)												
ICP Metals - Dissolved												
Lead	BRL	<0.002	<0.002	NC	94.0	97.7	3.9	94.8	95.2	0.4	75 - 125	20
QA/QC Batch 237061, QC Sample No: BD96051 (BD95954)												
ICP Metals - Aqueous												
Lead	BRL	<0.002	<0.002	NC	102	98.4	3.6	105	106	0.9	75 - 125	20

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 02, 2013

QA/QC Data

SDG I.D.: GBD95942

QA/QC Batch 237890, QC Sample No: BD95865 (BD95954)

Volatiles - Ground Water

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	101	93	8.2	94	86	8.9	70 - 130	30	
1,1,1-Trichloroethane	ND	103	95	8.1	88	79	10.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	92	86	6.7	98	90	8.5	70 - 130	30	
1,1,2-Trichloroethane	ND	100	95	5.1	96	91	5.3	70 - 130	30	
1,1-Dichloroethane	ND	102	95	7.1	93	83	11.4	70 - 130	30	
1,1-Dichloroethene	ND	98	90	8.5	89	79	11.9	70 - 130	30	
1,1-Dichloropropene	ND	100	89	11.6	91	81	11.6	70 - 130	30	
1,2,3-Trichlorobenzene	ND	100	97	3.0	93	97	4.2	70 - 130	30	
1,2,3-Trichloropropane	ND	94	86	8.9	92	86	6.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	97	92	5.3	92	89	3.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	105	93	12.1	99	88	11.8	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	86	84	2.4	96	89	7.6	70 - 130	30	
1,2-Dibromoethane	ND	98	92	6.3	98	89	9.6	70 - 130	30	
1,2-Dichlorobenzene	ND	98	92	6.3	96	86	11.0	70 - 130	30	
1,2-Dichloroethane	ND	102	96	6.1	90	84	6.9	70 - 130	30	
1,2-Dichloropropane	ND	98	89	9.6	93	84	10.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	101	93	8.2	99	87	12.9	70 - 130	30	
1,3-Dichlorobenzene	ND	100	92	8.3	95	85	11.1	70 - 130	30	
1,3-Dichloropropane	ND	97	93	4.2	95	88	7.7	70 - 130	30	
1,4-Dichlorobenzene	ND	100	91	9.4	94	85	10.1	70 - 130	30	
2,2-Dichloropropane	ND	105	97	7.9	72	63	13.3	70 - 130	30	m
2-Chlorotoluene	ND	104	93	11.2	99	88	11.8	70 - 130	30	
2-Hexanone	ND	84	83	1.2	92	86	6.7	70 - 130	30	
2-Isopropyltoluene	ND	106	96	9.9	99	87	12.9	70 - 130	30	
4-Chlorotoluene	ND	101	90	11.5	97	86	12.0	70 - 130	30	
4-Methyl-2-pentanone	ND	91	90	1.1	96	91	5.3	70 - 130	30	
Acetone	ND	93	92	1.1	93	85	9.0	70 - 130	30	
Acrylonitrile	ND	85	89	4.6	94	92	2.2	70 - 130	30	
Benzene	ND	99	89	10.6	95	84	12.3	70 - 130	30	
Bromobenzene	ND	99	89	10.6	97	88	9.7	70 - 130	30	
Bromochloromethane	ND	96	93	3.2	97	88	9.7	70 - 130	30	
Bromodichloromethane	ND	101	95	6.1	95	89	6.5	70 - 130	30	
Bromoform	ND	100	94	6.2	98	91	7.4	70 - 130	30	
Bromomethane	ND	110	106	3.7	<40	47	NC	70 - 130	30	m
Carbon Disulfide	ND	90	84	6.9	92	81	12.7	70 - 130	30	
Carbon tetrachloride	ND	107	95	11.9	88	78	12.0	70 - 130	30	
Chlorobenzene	ND	100	92	8.3	93	85	9.0	70 - 130	30	
Chloroethane	ND	108	100	7.7	97	85	13.2	70 - 130	30	
Chloroform	ND	102	96	6.1	91	82	10.4	70 - 130	30	
Chloromethane	ND	102	95	7.1	82	74	10.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	100	93	7.3	96	86	11.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBD95942

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	99	93	6.3	92	86	6.7	70 - 130	30	
Dibromochloromethane	ND	99	94	5.2	98	89	9.6	70 - 130	30	
Dibromomethane	ND	97	92	5.3	95	87	8.8	70 - 130	30	
Dichlorodifluoromethane	ND	102	94	8.2	69	63	9.1	70 - 130	30	m
Ethylbenzene	ND	100	91	9.4	95	86	9.9	70 - 130	30	
Hexachlorobutadiene	ND	95	89	6.5	88	81	8.3	70 - 130	30	
Isopropylbenzene	ND	103	92	11.3	96	87	9.8	70 - 130	30	
m&p-Xylene	ND	102	92	10.3	95	86	9.9	70 - 130	30	
Methyl ethyl ketone	ND	86	91	5.6	96	83	14.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	85	82	3.6	92	85	7.9	70 - 130	30	
Methylene chloride	ND	94	88	6.6	92	85	7.9	70 - 130	30	
Naphthalene	ND	93	93	0.0	97	97	0.0	70 - 130	30	
n-Butylbenzene	ND	105	92	13.2	95	84	12.3	70 - 130	30	
n-Propylbenzene	ND	101	91	10.4	94	85	10.1	70 - 130	30	
o-Xylene	ND	106	97	8.9	96	88	8.7	70 - 130	30	
p-Isopropyltoluene	ND	102	93	9.2	98	86	13.0	70 - 130	30	
sec-Butylbenzene	ND	99	89	10.6	95	83	13.5	70 - 130	30	
Styrene	ND	103	95	8.1	98	90	8.5	70 - 130	30	
tert-Butylbenzene	ND	103	93	10.2	96	87	9.8	70 - 130	30	
Tetrachloroethene	ND	95	86	9.9	88	77	13.3	70 - 130	30	
Tetrahydrofuran (THF)	ND	93	86	7.8	100	90	10.5	70 - 130	30	
Toluene	ND	99	91	8.4	93	84	10.2	70 - 130	30	
trans-1,2-Dichloroethene	ND	100	92	8.3	93	82	12.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	102	96	6.1	96	88	8.7	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	101	95	6.1	94	88	6.6	70 - 130	30	
Trichloroethene	ND	97	89	8.6	89	81	9.4	70 - 130	30	
Trichlorofluoromethane	ND	109	99	9.6	87	76	13.5	70 - 130	30	
Trichlorotrifluoroethane	ND	94	86	8.9	87	75	14.8	70 - 130	30	
Vinyl chloride	ND	107	98	8.8	84	75	11.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	106	100	101	1.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	92	101	101	0.0	99	99	0.0	70 - 130	30	
% Dibromofluoromethane	100	104	100	3.9	99	101	2.0	70 - 130	30	
% Toluene-d8	97	101	100	1.0	99	99	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 237013, QC Sample No: BD95942 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	73	72	1.4	77	75	2.6	60 - 120	30
% n-Pentacosane	80	80	78	2.5	84	83	1.2	50 - 150	30

QA/QC Batch 237009, QC Sample No: BD95942 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	97	93	4.2	92	88	4.4	30 - 130	30
Acenaphthene	ND	92	94	2.2	90	84	6.9	30 - 130	30
Acenaphthylene	ND	91	96	5.3	85	80	6.1	30 - 130	30
Anthracene	ND	100	101	1.0	89	81	9.4	30 - 130	30
Benz(a)anthracene	ND	96	96	0.0	95	88	7.7	30 - 130	30
Benzo(a)pyrene	ND	87	89	2.3	85	80	6.1	30 - 130	30
Benzo(b)fluoranthene	ND	103	107	3.8	103	91	12.4	30 - 130	30
Benzo(ghi)perylene	ND	99	99	0.0	78	69	12.2	30 - 130	30
Benzo(k)fluoranthene	ND	93	94	1.1	91	94	3.2	30 - 130	30

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chrysene	ND	95	97	2.1	93	86	7.8	30 - 130	30	
Dibenz(a,h)anthracene	ND	99	98	1.0	90	80	11.8	30 - 130	30	
Fluoranthene	ND	97	91	6.4	86	78	9.8	30 - 130	30	
Fluorene	ND	103	105	1.9	98	87	11.9	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	98	97	1.0	86	77	11.0	30 - 130	30	
Naphthalene	ND	90	91	1.1	82	72	13.0	30 - 130	30	
Phenanthrene	ND	99	99	0.0	92	80	14.0	30 - 130	30	
Pyrene	ND	96	88	8.7	78	75	3.9	30 - 130	30	
% 2-Fluorobiphenyl	86	84	88	4.7	81	76	6.4	30 - 130	30	
% Nitrobenzene-d5	81	86	85	1.2	78	74	5.3	30 - 130	30	
% Terphenyl-d14	89	99	93	6.3	80	73	9.2	30 - 130	30	

Comment:

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

QA/QC Batch 237661, QC Sample No: BD95949 (BD95949)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	106	102	3.8	91	80	12.9	70 - 130	30	
1,1,1-Trichloroethane	ND	119	113	5.2	106	92	14.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	94	92	2.2	85	72	16.6	70 - 130	30	
1,1,2-Trichloroethane	ND	105	102	2.9	96	81	16.9	70 - 130	30	
1,1-Dichloroethane	ND	113	107	5.5	108	93	14.9	70 - 130	30	
1,1-Dichloroethene	ND	99	94	5.2	93	80	15.0	70 - 130	30	
1,1-Dichloropropene	ND	112	106	5.5	103	86	18.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	94	90	4.3	63	55	13.6	70 - 130	30	m
1,2,3-Trichloropropane	ND	106	92	14.1	98	75	26.6	70 - 130	30	
1,2,4-Trichlorobenzene	ND	91	88	3.4	64	55	15.1	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	113	109	3.6	94	78	18.6	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	97	96	1.0	92	83	10.3	70 - 130	30	
1,2-Dibromoethane	ND	106	105	0.9	101	86	16.0	70 - 130	30	
1,2-Dichlorobenzene	ND	97	96	1.0	84	71	16.8	70 - 130	30	
1,2-Dichloroethane	ND	117	114	2.6	105	89	16.5	70 - 130	30	
1,2-Dichloropropane	ND	108	103	4.7	102	88	14.7	70 - 130	30	
1,3,5-Trimethylbenzene	ND	111	107	3.7	89	76	15.8	70 - 130	30	
1,3-Dichlorobenzene	ND	101	98	3.0	84	71	16.8	70 - 130	30	
1,3-Dichloropropane	ND	99	97	2.0	91	78	15.4	70 - 130	30	
1,4-Dichlorobenzene	ND	96	93	3.2	82	69	17.2	70 - 130	30	m
2,2-Dichloropropane	ND	111	104	6.5	83	74	11.5	70 - 130	30	
2-Chlorotoluene	ND	113	110	2.7	96	81	16.9	70 - 130	30	
2-Hexanone	ND	123	121	1.6	110	97	12.6	70 - 130	30	
2-Isopropyltoluene	ND	118	113	4.3	83	72	14.2	70 - 130	30	
4-Chlorotoluene	ND	106	103	2.9	93	80	15.0	70 - 130	30	
4-Methyl-2-pentanone	ND	126	126	0.0	122	104	15.9	70 - 130	30	
Acetone	ND	78	84	7.4	81	74	9.0	70 - 130	30	
Acrylonitrile	ND	115	112	2.6	122	101	18.8	70 - 130	30	
Benzene	ND	98	93	5.2	93	79	16.3	70 - 130	30	
Bromobenzene	ND	97	95	2.1	88	74	17.3	70 - 130	30	
Bromochloromethane	ND	106	104	1.9	106	89	17.4	70 - 130	30	
Bromodichloromethane	ND	108	104	3.8	95	81	15.9	70 - 130	30	
Bromoform	ND	102	98	4.0	86	78	9.8	70 - 130	30	
Bromomethane	ND	102	96	6.1	92	78	16.5	70 - 130	30	
Carbon Disulfide	ND	94	89	5.5	94	79	17.3	70 - 130	30	
Carbon tetrachloride	ND	119	111	7.0	99	86	14.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBD95942

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chlorobenzene	ND	101	96	5.1	88	77	13.3	70 - 130	30	
Chloroethane	ND	112	106	5.5	107	91	16.2	70 - 130	30	
Chloroform	ND	108	103	4.7	99	86	14.1	70 - 130	30	
Chloromethane	ND	134	129	3.8	123	105	15.8	70 - 130	30	l
cis-1,2-Dichloroethene	ND	109	105	3.7	105	91	14.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	103	100	3.0	95	80	17.1	70 - 130	30	
Dibromochloromethane	ND	113	107	5.5	97	85	13.2	70 - 130	30	
Dibromomethane	ND	102	99	3.0	95	80	17.1	70 - 130	30	
Dichlorodifluoromethane	ND	126	117	7.4	89	75	17.1	70 - 130	30	
Ethylbenzene	ND	103	96	7.0	90	78	14.3	70 - 130	30	
Hexachlorobutadiene	ND	97	91	6.4	43	<40	NC	70 - 130	30	m
Isopropylbenzene	ND	119	113	5.2	97	83	15.6	70 - 130	30	
m&p-Xylene	ND	103	96	7.0	91	77	16.7	70 - 130	30	
Methyl ethyl ketone	ND	108	102	5.7	105	86	19.9	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	101	100	1.0	106	92	14.1	70 - 130	30	
Methylene chloride	ND	93	89	4.4	95	80	17.1	70 - 130	30	
Naphthalene	ND	122	122	0.0	99	91	8.4	70 - 130	30	
n-Butylbenzene	ND	107	100	6.8	66	56	16.4	70 - 130	30	m
n-Propylbenzene	ND	111	107	3.7	89	76	15.8	70 - 130	30	
o-Xylene	ND	108	101	6.7	92	79	15.2	70 - 130	30	
p-Isopropyltoluene	ND	115	108	6.3	80	69	14.8	70 - 130	30	m
sec-Butylbenzene	ND	112	106	5.5	77	67	13.9	70 - 130	30	m
Styrene	ND	100	93	7.3	91	78	15.4	70 - 130	30	
tert-Butylbenzene	ND	121	116	4.2	89	77	14.5	70 - 130	30	
Tetrachloroethene	ND	104	97	7.0	87	74	16.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	122	118	3.3	122	103	16.9	70 - 130	30	
Toluene	ND	102	97	5.0	94	80	16.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	107	100	6.8	101	86	16.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	105	100	4.9	94	80	16.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	95	99	4.1	81	71	13.2	70 - 130	30	
Trichloroethene	ND	115	108	6.3	104	89	15.5	70 - 130	30	
Trichlorofluoromethane	ND	107	101	5.8	86	74	15.0	70 - 130	30	
Trichlorotrifluoroethane	ND	95	87	8.8	79	67	16.4	70 - 130	30	m
Vinyl chloride	ND	116	110	5.3	103	87	16.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	107	98	101	3.0	102	99	3.0	70 - 130	30	
% Bromofluorobenzene	97	102	102	0.0	100	102	2.0	70 - 130	30	
% Dibromofluoromethane	97	99	96	3.1	95	102	7.1	70 - 130	30	
% Toluene-d8	96	98	99	1.0	99	98	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 237918, QC Sample No: BD95950 (BD95950, BD95951, BD95952, BD95953)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	100	102	2.0	99	94	5.2	70 - 130	30	
1,1,1-Trichloroethane	ND	94	93	1.1	95	87	8.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	83	86	3.6	102	98	4.0	70 - 130	30	
1,1,2-Trichloroethane	ND	102	103	1.0	96	93	3.2	70 - 130	30	
1,1-Dichloroethane	ND	90	90	0.0	94	85	10.1	70 - 130	30	
1,1-Dichloroethene	ND	92	93	1.1	98	87	11.9	70 - 130	30	
1,1-Dichloropropene	ND	96	92	4.3	97	88	9.7	70 - 130	30	
1,2,3-Trichlorobenzene	ND	90	83	8.1	48	45	6.5	70 - 130	30	m
1,2,3-Trichloropropane	ND	87	92	5.6	107	99	7.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	83	72	14.2	52	47	10.1	70 - 130	30	m

QA/QC Data

SDG I.D.: GBD95942

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trimethylbenzene	ND	94	89	5.5	92	86	6.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	100	104	3.9	111	102	8.5	70 - 130	30	
1,2-Dibromoethane	ND	101	99	2.0	93	86	7.8	70 - 130	30	
1,2-Dichlorobenzene	ND	94	90	4.3	85	78	8.6	70 - 130	30	
1,2-Dichloroethane	ND	90	90	0.0	87	81	7.1	70 - 130	30	
1,2-Dichloropropane	ND	96	95	1.0	95	92	3.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	95	90	5.4	94	89	5.5	70 - 130	30	
1,3-Dichlorobenzene	ND	93	88	5.5	86	80	7.2	70 - 130	30	
1,3-Dichloropropane	ND	95	94	1.1	96	92	4.3	70 - 130	30	
1,4-Dichlorobenzene	ND	91	87	4.5	84	77	8.7	70 - 130	30	
2,2-Dichloropropane	ND	82	81	1.2	89	82	8.2	70 - 130	30	
2-Chlorotoluene	ND	98	94	4.2	102	94	8.2	70 - 130	30	
2-Hexanone	ND	81	84	3.6	80	79	1.3	70 - 130	30	
2-Isopropyltoluene	ND	100	94	6.2	89	82	8.2	70 - 130	30	
4-Chlorotoluene	ND	92	87	5.6	98	89	9.6	70 - 130	30	
4-Methyl-2-pentanone	ND	94	93	1.1	91	88	3.4	70 - 130	30	
Acetone	ND	60	63	4.9	107	94	12.9	70 - 130	30	l
Acrylonitrile	ND	90	89	1.1	86	83	3.6	70 - 130	30	
Benzene	ND	97	95	2.1	99	93	6.3	70 - 130	30	
Bromobenzene	ND	97	97	0.0	104	97	7.0	70 - 130	30	
Bromochloromethane	ND	95	98	3.1	101	90	11.5	70 - 130	30	
Bromodichloromethane	ND	96	94	2.1	92	88	4.4	70 - 130	30	
Bromoform	ND	103	106	2.9	99	95	4.1	70 - 130	30	
Bromomethane	ND	94	87	7.7	88	74	17.3	70 - 130	30	
Carbon Disulfide	ND	87	86	1.2	91	79	14.1	70 - 130	30	
Carbon tetrachloride	ND	101	97	4.0	96	90	6.5	70 - 130	30	
Chlorobenzene	ND	101	99	2.0	96	91	5.3	70 - 130	30	
Chloroethane	ND	94	88	6.6	93	81	13.8	70 - 130	30	
Chloroform	ND	91	90	1.1	92	85	7.9	70 - 130	30	
Chloromethane	ND	80	78	2.5	81	67	18.9	70 - 130	30	m
cis-1,2-Dichloroethene	ND	97	96	1.0	96	86	11.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	91	91	0.0	83	77	7.5	70 - 130	30	
Dibromochloromethane	ND	101	100	1.0	100	96	4.1	70 - 130	30	
Dibromomethane	ND	95	94	1.1	91	84	8.0	70 - 130	30	
Dichlorodifluoromethane	ND	78	75	3.9	64	56	13.3	70 - 130	30	m
Ethylbenzene	ND	99	98	1.0	100	95	5.1	70 - 130	30	
Hexachlorobutadiene	ND	96	78	20.7	47	41	13.6	70 - 130	30	m
Isopropylbenzene	ND	105	100	4.9	112	103	8.4	70 - 130	30	
m&p-Xylene	ND	100	98	2.0	98	94	4.2	70 - 130	30	
Methyl ethyl ketone	ND	72	70	2.8	81	72	11.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	91	89	2.2	100	95	5.1	70 - 130	30	
Methylene chloride	ND	80	78	2.5	89	82	8.2	70 - 130	30	
Naphthalene	ND	96	92	4.3	82	78	5.0	70 - 130	30	
n-Butylbenzene	ND	87	78	10.9	73	68	7.1	70 - 130	30	m
n-Propylbenzene	ND	99	93	6.3	104	96	8.0	70 - 130	30	
o-Xylene	ND	104	101	2.9	100	96	4.1	70 - 130	30	
p-Isopropyltoluene	ND	96	87	9.8	90	83	8.1	70 - 130	30	
sec-Butylbenzene	ND	97	90	7.5	90	82	9.3	70 - 130	30	
Styrene	ND	97	95	2.1	93	88	5.5	70 - 130	30	
tert-Butylbenzene	ND	104	100	3.9	99	90	9.5	70 - 130	30	
Tetrachloroethene	ND	105	99	5.9	106	100	5.8	70 - 130	30	
Tetrahydrofuran (THF)	ND	87	88	1.1	90	82	9.3	70 - 130	30	
Toluene	ND	99	96	3.1	97	93	4.2	70 - 130	30	

QA/QC Data

SDG I.D.: GBD95942

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,2-Dichloroethene	ND	96	94	2.1	94	83	12.4	70 - 130	30	
trans-1,3-Dichloropropene	ND	89	88	1.1	78	69	12.2	70 - 130	30	m
trans-1,4-dichloro-2-butene	ND	84	85	1.2	56	42	28.6	70 - 130	30	m
Trichloroethene	ND	111	109	1.8	106	97	8.9	70 - 130	30	
Trichlorofluoromethane	ND	92	89	3.3	92	83	10.3	70 - 130	30	
Trichlorotrifluoroethane	ND	97	91	6.4	102	92	10.3	70 - 130	30	
Vinyl chloride	ND	93	92	1.1	84	74	12.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	101	100	1.0	99	98	1.0	70 - 130	30	
% Bromofluorobenzene	92	94	93	1.1	86	89	3.4	70 - 130	30	
% Dibromofluoromethane	107	105	104	1.0	108	104	3.8	70 - 130	30	
% Toluene-d8	99	98	97	1.0	95	95	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 237496, QC Sample No: BD95954 (BD95954)

Polynuclear Aromatic HC - Ground Water

2-Methylnaphthalene	ND	85	87	2.3				30 - 130	20	
Acenaphthene	ND	90	93	3.3				30 - 130	20	
Acenaphthylene	ND	93	96	3.2				30 - 130	20	
Anthracene	ND	96	97	1.0				30 - 130	20	
Benz(a)anthracene	ND	87	89	2.3				30 - 130	20	
Benzo(a)pyrene	ND	85	86	1.2				30 - 130	20	
Benzo(b)fluoranthene	ND	98	100	2.0				30 - 130	20	
Benzo(ghi)perylene	ND	78	79	1.3				30 - 130	20	
Benzo(k)fluoranthene	ND	102	103	1.0				30 - 130	20	
Chrysene	ND	88	92	4.4				30 - 130	20	
Dibenz(a,h)anthracene	ND	82	83	1.2				30 - 130	20	
Fluoranthene	ND	91	92	1.1				30 - 130	20	
Fluorene	ND	92	97	5.3				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	80	81	1.2				30 - 130	20	
Naphthalene	ND	86	89	3.4				30 - 130	20	
Phenanthrene	ND	91	93	2.2				30 - 130	20	
Pyrene	ND	90	91	1.1				30 - 130	20	
% 2-Fluorobiphenyl	86	86	87	1.2				30 - 130	20	
% Nitrobenzene-d5	100	82	83	1.2				30 - 130	20	
% Terphenyl-d14	88	85	83	2.4				30 - 130	20	

QA/QC Batch 237084, QC Sample No: BD95996 (BD95954)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum HC	ND	77	76	1.3				60 - 120	30	
% n-Pentacosane	77	76	77	1.3				50 - 150	20	

QA/QC Batch 237849, QC Sample No: BD98184 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	95	100	5.1	96	96	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	97	101	4.0	100	101	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	99	101	2.0	104	102	1.9	70 - 130	30	
1,1,2-Trichloroethane	ND	104	106	1.9	103	101	2.0	70 - 130	30	
1,1-Dichloroethane	ND	97	102	5.0	102	100	2.0	70 - 130	30	
1,1-Dichloroethene	ND	106	107	0.9	93	94	1.1	70 - 130	30	
1,1-Dichloropropene	ND	99	103	4.0	107	106	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	118	116	1.7	115	116	0.9	70 - 130	30	
1,2,3-Trichloropropane	ND	96	99	3.1	100	96	4.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	119	120	0.8	118	120	1.7	70 - 130	30	

QA/QC Data

SDG I.D.: GBD95942

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trimethylbenzene	ND	106	108	1.9	107	107	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	99	97	2.0	99	94	5.2	70 - 130	30	
1,2-Dibromoethane	ND	103	105	1.9	103	102	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	109	110	0.9	109	109	0.0	70 - 130	30	
1,2-Dichloroethane	ND	92	95	3.2	94	94	0.0	70 - 130	30	
1,2-Dichloropropane	ND	101	106	4.8	104	103	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	103	104	1.0	105	106	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	111	114	2.7	112	113	0.9	70 - 130	30	
1,3-Dichloropropane	ND	98	101	3.0	101	101	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	113	115	1.8	115	114	0.9	70 - 130	30	
2,2-Dichloropropane	ND	97	101	4.0	100	102	2.0	70 - 130	30	
2-Chlorotoluene	ND	109	111	1.8	108	109	0.9	70 - 130	30	
2-Hexanone	ND	90	93	3.3	90	88	2.2	70 - 130	30	
2-Isopropyltoluene	ND	104	106	1.9	107	107	0.0	70 - 130	30	
4-Chlorotoluene	ND	106	106	0.0	109	110	0.9	70 - 130	30	
4-Methyl-2-pentanone	ND	96	97	1.0	96	94	2.1	70 - 130	30	
Acetone	ND	78	78	0.0	74	69	7.0	70 - 130	30	m
Acrylonitrile	ND	100	104	3.9	105	102	2.9	70 - 130	30	
Benzene	ND	102	106	3.8	107	106	0.9	70 - 130	30	
Bromobenzene	ND	106	109	2.8	111	109	1.8	70 - 130	30	
Bromochloromethane	ND	99	102	3.0	101	102	1.0	70 - 130	30	
Bromodichloromethane	ND	92	96	4.3	92	91	1.1	70 - 130	30	
Bromoform	ND	91	97	6.4	83	84	1.2	70 - 130	30	
Bromomethane	ND	99	102	3.0	69	71	2.9	70 - 130	30	m
Carbon Disulfide	ND	91	94	3.2	90	91	1.1	70 - 130	30	
Carbon tetrachloride	ND	96	100	4.1	95	99	4.1	70 - 130	30	
Chlorobenzene	ND	104	109	4.7	108	109	0.9	70 - 130	30	
Chloroethane	ND	101	102	1.0	<40	<40	NC	70 - 130	30	m
Chloroform	ND	95	98	3.1	98	97	1.0	70 - 130	30	
Chloromethane	ND	98	102	4.0	99	100	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	104	109	4.7	114	117	2.6	70 - 130	30	
cis-1,3-Dichloropropene	ND	101	102	1.0	102	102	0.0	70 - 130	30	
Dibromochloromethane	ND	93	97	4.2	91	92	1.1	70 - 130	30	
Dibromomethane	ND	100	102	2.0	102	99	3.0	70 - 130	30	
Dichlorodifluoromethane	ND	100	102	2.0	91	90	1.1	70 - 130	30	
Ethylbenzene	ND	102	106	3.8	109	109	0.0	70 - 130	30	
Hexachlorobutadiene	ND	106	107	0.9	109	111	1.8	70 - 130	30	
Isopropylbenzene	ND	110	113	2.7	109	111	1.8	70 - 130	30	
m&p-Xylene	ND	103	108	4.7	109	110	0.9	70 - 130	30	
Methyl ethyl ketone	ND	97	98	1.0	98	95	3.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	85	87	2.3	93	91	2.2	70 - 130	30	
Methylene chloride	ND	82	86	4.8	87	87	0.0	70 - 130	30	
Naphthalene	ND	111	111	0.0	108	109	0.9	70 - 130	30	
n-Butylbenzene	ND	113	115	1.8	114	116	1.7	70 - 130	30	
n-Propylbenzene	ND	110	111	0.9	112	110	1.8	70 - 130	30	
o-Xylene	ND	107	111	3.7	108	108	0.0	70 - 130	30	
p-Isopropyltoluene	ND	108	110	1.8	110	110	0.0	70 - 130	30	
sec-Butylbenzene	ND	105	107	1.9	109	109	0.0	70 - 130	30	
Styrene	ND	101	105	3.9	103	104	1.0	70 - 130	30	
tert-Butylbenzene	ND	105	107	1.9	106	107	0.9	70 - 130	30	
Tetrachloroethene	ND	108	112	3.6	109	112	2.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	96	103	7.0	103	100	3.0	70 - 130	30	
Toluene	ND	104	106	1.9	110	109	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBD95942

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,2-Dichloroethene	ND	104	108	3.8	106	107	0.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	96	97	1.0	96	94	2.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	104	104	0.0	96	95	1.0	70 - 130	30	
Trichloroethene	ND	105	110	4.7	106	105	0.9	70 - 130	30	
Trichlorofluoromethane	ND	99	103	4.0	54	52	3.8	70 - 130	30	m
Trichlorotrifluoroethane	ND	106	110	3.7	99	99	0.0	70 - 130	30	
Vinyl chloride	ND	111	115	3.5	106	108	1.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	101	102	1.0	101	102	1.0	70 - 130	30	
% Bromofluorobenzene	95	95	97	2.1	97	97	0.0	70 - 130	30	
% Dibromofluoromethane	102	103	104	1.0	99	104	4.9	70 - 130	30	
% Toluene-d8	95	102	101	1.0	102	101	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of 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.

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 02, 2013

Sample Criteria Exceedences Report

GBD95942 - MAGU-DAS

Requested Criteria: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD95946	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.272	0.010	0.15	0.15	mg/L
BD95950	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2600	270	1000	1000	ug/Kg
BD95950	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2600	270	1000	1000	ug/Kg
BD95950	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2400	270	1000	1000	ug/Kg
BD95950	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	3300	270	1000	1000	ug/Kg
BD95950	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	3300	270	1000	1000	ug/Kg
BD95950	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1200	270	1000	1000	ug/Kg
BD95950	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2700	270	1000	1000	ug/Kg
BD95950	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2700	270	1000	1000	ug/Kg
BD95950	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1100	270	1000	1000	ug/Kg
BD95950	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1100	270	1000	1000	ug/Kg
BD95952	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/k	ND	7.5	7	7	ug/Kg

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGU-DAS

Project Location: MIDDLETOWN SEWER PROJE **Project Number:**

Laboratory Sample ID(s): BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953, BD95954

Sampling Date(s): 6/24/2013

RCP Methods Used:

☑ 1311/1312 ☑ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☐ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: Rmakol

Date: Tuesday, July 02, 2013

Printed Name: Rashmi Makol

Position: Project Manager

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

Volatile 8260 analysis:
1,2-Dibromoethane does not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.

ETPH Narration

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

Instrument: Au-fid84 06/28/13-2 (BD95948, BD95953)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Jeff Bucko
Position: Chemist
Date: 6/28/2013

Instrument: Au-xl2 06/25/13-2 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95949, BD95951, BD95952)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Jeff Bucko
Position: Chemist
Date: 6/25/2013

Instrument: Au-xl2 06/27/13-3 (BD95954)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C30, C36

Printed Name Jeff Bucko
Position: Chemist
Date: 6/27/2013

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

QC (Site Specific)

---------- Sample No: BD95942, QA/QC Batch: 237013 ----------

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.

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.

QC (Batch Specific)

---------- Sample No: BD95996, QA/QC Batch: 237084 ----------

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.

ICP Narration

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

Instrument: Arcos 06/24/13-1 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 6/24/2013

Instrument: Arcos 06/25/13-1 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 6/25/2013

Instrument: Blue 06/24/13-1 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953, BD95954)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 6/24/2013

Instrument: Blue 06/25/13-1 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948, BD95949, BD95950, BD95951, BD95952, BD95953, BD95954)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 6/25/2013

Instrument: Blue 06/26/13-1 (BD95949, BD95954)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 6/26/2013

Instrument: Blue 06/27/13-1 (BD95954)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

Printed Name	Laura Kinnin
Position:	Chemist
Date:	6/27/2013

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

QC (Site Specific)

---------- Sample No: BD95949, QA/QC Batch: 237044 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD95954, QA/QC Batch: 237045 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD93915, QA/QC Batch: 236421 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD96051, QA/QC Batch: 237061 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

PAH Narration

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

Instrument: Chem06 06/24/13-1 (BD95942, BD95943, BD95946, BD95947, BD95948, BD95949, BD95951, BD95952, BD95953)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM06/BN_0621):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0624_04-BN_0621):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/24/2013

Instrument: Chem12 06/24/13-2 (BD95944)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM12/BN_0620):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM12/0624_25-BN_0620):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/24/2013

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

QC (Site Specific)

---------- Sample No: BD95942, QA/QC Batch: 237009 ----------

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.

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.

PAHSIM Narration

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

Instrument: Chem04 06/30/13-1 (BD95954)

Initial Calibration Verification (CHEM04/SIM_0628):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: Pentachlorophenol (33%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM04/0630_03A-SIM_0628):
98% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: Pentachlorophenol (-49%)[30%]
The following compounds did not meet maximum % deviations: Pentachlorophenol (-49%)[40%]
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/30/2013

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

QC (Site Specific)

---------- Sample No: BD95954, QA/QC Batch: 237496 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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.

SVOA Narration

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

Instrument: Chem19 06/24/13-2 (BD95945, BD95950)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.Initial Calibration Verification (CHEM19/SV_0624):
100% of target compounds met criteria.
The following compounds had %RSDs >0%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM19/0624_15-SV_0624):
98% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: Atrazine (41%)[30%], Benzaldehyde (64%)[30%]
The following compounds did not meet maximum % deviations: Atrazine (41%)[40%], Benzaldehyde (64%)[40%]
The following compounds did not meet recommended response factors: 2-nitrophenol (.087)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/24/2013

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

QC (Site Specific)

---------- Sample No: BD95942, QA/QC Batch: 237009 ----------

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.

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.

VOA Narration

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

QC Batch 237661 (Samples: BD95949): -----

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

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,4-Dichlorobenzene, Hexachlorobutadiene, n-Butylbenzene, p-Isopropyltoluene, sec-Butylbenzene, Trichlorotrifluoroethane)

QC Batch 237918 (Samples: BD95950, BD95951, BD95952, BD95953): -----

The LCS/LCSD recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is possible. (Acetone)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Chloromethane, Dichlorodifluoromethane, Hexachlorobutadiene, n-Butylbenzene, trans-1,3-Dichloropropene, trans-1,4-dichloro-2-butene)

Instrument: Chem03 06/26/13-1 (BD95949)

Initial Calibration Verification (CHEM03/RCPS_0619):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (23%), Naphthalene (26%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/062L02-RCPS_0619):
95% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: 2-hexanone (-34%)[30%], 4-methyl-2-pentanone (-37%)[30%], Chloromethane (-35%)[30%], Tetrahydrofuran (thf) (-31%)[30%]

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

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.

Printed Name Caleb Githinji
Position: Chemist
Date: 6/26/2013

Instrument: Chem15 06/27/13-2 (BD95950, BD95951, BD95952, BD95953)

Initial Calibration Verification (CHEM15/RCPS_0627):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Methylene Chloride (21%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification #1 (CHEM15/0627B67-RCPS_0627):
97% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: Acetone (38%)[30%], Dichlorodifluoromethane (36%)[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.

Continuing Calibration Verification #2 (CHEM15/0627B68-RCPS_0627):
97% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following compounds did not meet % deviation criteria: Acetone (39%)[30%], Dichlorodifluoromethane (38%)[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.

Printed Name Johanna Harrington
Position: Chemist
Date: 6/27/2013

Instrument: Chem17 06/27/13-1 (BD95954)

Initial Calibration Verification (CHEM17/RCPS_0625):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (22%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM17/0627S02-RCPS_0625):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

Printed Name Ryan Magee
Position: Chemist
Date: 6/27/2013

Instrument: Chem18 06/27/13-2 (BD95942, BD95943, BD95944, BD95945, BD95946, BD95947, BD95948)

Initial Calibration Verification (CHEM18/RCPS_0625N2):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0627M31-RCPS_0625N2):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. 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.

Printed Name Ashraf Sheikh
Position: Chemist
Date: 6/27/2013

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

QC (Site Specific)

---------- Sample No: BD95949, QA/QC Batch: 237661 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Chloromethane(134%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(63%), 1,2,4-Trichlorobenzene(64%), Hexachlorobutadiene(43%), n-Butylbenzene(66%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(55%), 1,2,4-Trichlorobenzene(55%), 1,4-Dichlorobenzene(69%), Hexachlorobutadiene(<40%), n-Butylbenzene(56%), p-Isopropyltoluene(69%), sec-Butylbenzene(67%), Trichlorotrifluoroethane(67%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD95950, QA/QC Batch: 237918 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(60%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(63%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(48%), 1,2,4-Trichlorobenzene(52%), Dichlorodifluoromethane(64%), Hexachlorobutadiene(47%), trans-1,4-dichloro-2-butene(56%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(45%), 1,2,4-Trichlorobenzene(47%), Chloromethane(67%), Dichlorodifluoromethane(56%), Hexachlorobutadiene(41%), n-Butylbenzene(68%), trans-1,3-Dichloropropene(69%), trans-1,4-dichloro-2-butene(42%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BD95865, QA/QC Batch: 237890 ----------

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.

---------- Sample No: BD98184, QA/QC Batch: 237849 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

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

RCP Certification Report

July 02, 2013

SDG I.D.: GBD95942

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.

Temperature Narration

The samples were received at 3C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [✓] No [ ]
Coolant: IPK [ ] ICE [✓] No [ ]
Temp 3 °C Pg 1 of 2

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Contact Options:
[ ] Fax:
[✓] Phone: 8605633158
[✓] Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire Inc.
Address: 2080 Silas Deane Hwy.
Rocky Hill, CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6-24-13

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs - 8260	PAHs 8270	CT ETPH	Total Lead	SPLP Lead	Soil VOA Vials [ ] methanol [✓] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 1250ml [ ] 1500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 1500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
95942	PSGP-48 2'-5'	S	6-24-13	11:40	X	X	X	X	X								1/2	1	
95943	PSGP-48 15'-20'	↓	↓	12:00pm	↓	↓	↓	↓	↓								↓	↓	
95944	PSGP-50 2'-5'			6:50am															
95945	PSGP-50 9'-13'			7:00															
95946	PSGP-50 15'-17'			7:10															
95947	PSGP-51 2'-5'			8:15															
95948	PSGP-51 10'-15'			8:20															
95949	PSGP-52 2'-5'			8:55															
95950	PSGP-52 13'-15'			9:15															
95951	PSGP-52 23'-25'			9:40															
95952	PSGP-52 31'-35'			10:15															
* 95953	PSGP-56 2'-5'	↓	↓	12:50pm	↓	↓	↓	↓	↓								↓	↓	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6/24/13	13:43

Comments, Special Requirements or Regulations:
* ~~for~~ sample labeled PSGP-55. (QP)

Turnaround:
[ ] 1 Day*
[ ] 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

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

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

State where samples were collected: CT

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] No [ ]

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Temp 3 °C Pg 2 of 2

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

Contact Options:
[ ] Fax:
[X] Phone: 860 563 3158
[X] Email: jane.witherell@cdrmaguire.com

Customer: CDR Maguire Inc.
Address: 2080 Silas Deane Hwy.
Rocky Hill CT 06067

Project: Middletown Sewer Project
Report to: Jane Witherell - CDR
Invoice to: DAS Contract - City of Middletown c/o CDR

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: [signature] Date: 6-24-13

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

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs-8260	PAHs-8270	CT ETPH	Total Lead	Dissolved Lead	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [X] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
95981	FB-1	GW	6-24-13	1:05pm	✓	✓	✓	✓	✓						3	3			2

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	6/24/13	13:43

Comments, Special Requirements or Regulations:

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

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

CT
[X] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[X] 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

PHOENIX
Environmental Laboratories, Inc.

Friday, March 01, 2013

Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Project ID: MIDDLETOWN PUMP STATION
Sample ID#s: BD38387 - BD38390

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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

Analysis Report

March 01, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/21/13	11:45
Location Code:	MAGUIRE	Received by:	LB	02/21/13	13:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD38387
Phoenix ID: BD38387

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	02/22/13	EK	SW6010
Arsenic	1.7	0.8	mg/Kg	02/22/13	EK	SW6010
Barium	42.0	0.38	mg/Kg	02/22/13	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	02/22/13	EK	SW6010
Chromium	9.90	0.38	mg/Kg	02/22/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/27/13	RS	SW-7471
Lead	91.9	0.38	mg/Kg	02/22/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/22/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/22/13	EK	SW6010
SPLP Arsenic	0.008	0.004	mg/L	02/22/13	EK	SW6010
SPLP Barium	0.319	0.010	mg/L	02/22/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/22/13	EK	SW6010
SPLP Chromium	0.021	0.010	mg/L	02/22/13	EK	SW6010
SPLP Mercury	0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	0.606	0.010	mg/L	02/22/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/22/13	EK	SW6010
SPLP Metals Digestion	Completed			02/22/13	K	SW846-3005
Percent Solid	91		%	02/21/13	JL	E160.3
Soil Extraction for PCB	Completed			02/21/13	PB/V	SW3545
Soil Extraction SVOA BN	Completed			02/21/13	PJ/V	SW3545
Extraction of CT ETPH	Completed			02/21/13	PJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/21/13	K	EPA 1312
Total Metals Digest	Completed			02/21/13	AG	SW846 - 3050
Field Extraction	Completed			02/21/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	750	11	mg/Kg	02/22/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-4

Phoenix I.D.: BD38387

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	02/22/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	Interference		%	02/22/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	92		%	02/25/13	AW	30 - 150 %
% TCMX	84		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	02/22/13	JH	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2,3-Trichloropropane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2-Dichlorobenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,3-Dichlorobenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
1,4-Dichlorobenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
2-Chlorotoluene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
2-Hexanone	ND	23	ug/Kg	02/22/13	JH	SW8260
2-Isopropyltoluene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
4-Chlorotoluene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	02/22/13	JH	SW8260
Acetone	ND	91	ug/Kg	02/22/13	JH	SW8260
Acrylonitrile	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Benzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Bromobenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Bromochloromethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-4

Phoenix I.D.: BD38387

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Bromoform	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Bromomethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Chlorobenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Chloroethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Chloroform	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Chloromethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	02/22/13	JH	SW8260
Dibromomethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Ethylbenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Hexachlorobutadiene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Isopropylbenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
m&p-Xylene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	02/22/13	JH	SW8260
Methyl t-butyl ether (MTBE)	ND	9.1	ug/Kg	02/22/13	JH	SW8260
Methylene chloride	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Naphthalene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
n-Butylbenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
n-Propylbenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
o-Xylene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
p-Isopropyltoluene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
sec-Butylbenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Styrene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
tert-Butylbenzene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Tetrahydrofuran (THF)	ND	9.1	ug/Kg	02/22/13	JH	SW8260
Toluene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Total Xylenes	ND	4.6	ug/Kg	02/22/13	JH	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
trans-1,4-dichloro-2-butene	ND	9.1	ug/Kg	02/22/13	JH	SW8260
Trichloroethene	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Trichlorotrifluoroethane	ND	4.6	ug/Kg	02/22/13	JH	SW8260
Vinyl chloride	ND	4.6	ug/Kg	02/22/13	JH	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	02/22/13	JH	70 - 130 %
% Bromofluorobenzene	92		%	02/22/13	JH	70 - 130 %
% Dibromofluoromethane	106		%	02/22/13	JH	70 - 130 %
% Toluene-d8	94		%	02/22/13	JH	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/22/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-4

Phoenix I.D.: BD38387

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	02/22/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	75		%	02/22/13	DD	30 - 130 %
% Nitrobenzene-d5	69		%	02/22/13	DD	30 - 130 %
% Terphenyl-d14	80		%	02/22/13	DD	30 - 130 %

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

Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 01, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

March 01, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/21/13	12:20
Location Code:	MAGUIRE	Received by:	LB	02/21/13	13:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD38387
Phoenix ID: BD38388

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	02/22/13	LK	SW6010
Arsenic	2.0	0.7	mg/Kg	02/22/13	LK	SW6010
Barium	27.5	0.34	mg/Kg	02/22/13	LK	SW6010
Cadmium	< 0.34	0.34	mg/Kg	02/22/13	LK	SW6010
Chromium	8.14	0.34	mg/Kg	02/22/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/27/13	RS	SW-7471
Lead	3.87	0.34	mg/Kg	02/22/13	LK	SW6010
Selenium	< 1.3	1.3	mg/Kg	02/22/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/22/13	EK	SW6010
SPLP Arsenic	0.004	0.004	mg/L	02/22/13	EK	SW6010
SPLP Barium	0.105	0.010	mg/L	02/22/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/22/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/22/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/22/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/22/13	EK	SW6010
SPLP Metals Digestion	Completed			02/22/13		SW846-3005
Percent Solid	93		%	02/21/13	JL	E160.3
Soil Extraction for PCB	Completed			02/21/13	PB/V	SW3545
Soil Extraction SVOA BN	Completed			02/21/13	PJ/V	SW3545
Extraction of CT ETPH	Completed			02/21/13	PJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/21/13	K	EPA 1312
Total Metals Digest	Completed			02/21/13	AG	SW846 - 3050
Field Extraction	Completed			02/21/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/22/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-5

Phoenix I.D.: BD38388

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/22/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	83		%	02/22/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	350	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	350	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	350	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	350	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	350	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	350	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	350	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	350	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	350	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	98		%	02/25/13	AW	30 - 150 %
% TCMX	88		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	02/23/13	H/J	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2-Dibromoethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
2-Hexanone	ND	24	ug/Kg	02/23/13	H/J	SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	02/23/13	H/J	SW8260
Acetone	ND	98	ug/Kg	02/23/13	H/J	SW8260
Acrylonitrile	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Benzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Bromobenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Bromochloromethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-5

Phoenix I.D.: BD38388

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Bromoform	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Bromomethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Chlorobenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Chloroethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Chloroform	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Chloromethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	02/23/13	H/J	SW8260
Dibromomethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Ethylbenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Isopropylbenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
m&p-Xylene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	02/23/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.8	ug/Kg	02/23/13	H/J	SW8260
Methylene chloride	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Naphthalene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
n-Butylbenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
n-Propylbenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
o-Xylene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Styrene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	9.8	ug/Kg	02/23/13	H/J	SW8260
Toluene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Total Xylenes	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.8	ug/Kg	02/23/13	H/J	SW8260
Trichloroethene	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Trichlorotrifluoroethane	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
Vinyl chloride	ND	4.9	ug/Kg	02/23/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	97		%	02/23/13	H/J	70 - 130 %
% Bromofluorobenzene	95		%	02/23/13	H/J	70 - 130 %
% Dibromofluoromethane	105		%	02/23/13	H/J	70 - 130 %
% Toluene-d8	96		%	02/23/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	02/22/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-5

Phoenix I.D.: BD38388

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Chrysene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Naphthalene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	02/22/13	DD	SW 8270
Pyrene	ND	250	ug/Kg	02/22/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	79		%	02/22/13	DD	30 - 130 %
% Nitrobenzene-d5	72		%	02/22/13	DD	30 - 130 %
% Terphenyl-d14	78		%	02/22/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 01, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

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

Analysis Report

March 01, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/21/13	12:05
Location Code:	MAGUIRE	Received by:	LB	02/21/13	13:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD38387
Phoenix ID: BD38389

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-6

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	02/22/13	EK	SW6010
Arsenic	2.0	0.8	mg/Kg	02/22/13	EK	SW6010
Barium	40.4	0.38	mg/Kg	02/22/13	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	02/22/13	EK	SW6010
Chromium	11.5	0.38	mg/Kg	02/22/13	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	02/27/13	RS	SW-7471
Lead	5.92	0.38	mg/Kg	02/22/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/22/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/22/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/22/13	EK	SW6010
SPLP Barium	0.178	0.010	mg/L	02/22/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/22/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/22/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/22/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/22/13	EK	SW6010
SPLP Metals Digestion	Completed			02/22/13		SW846-3005
Percent Solid	88		%	02/21/13	JL	E160.3
Soil Extraction for PCB	Completed			02/21/13	PB/V	SW3545
Soil Extraction SVOA BN	Completed			02/21/13	PJ/V	SW3545
Extraction of CT ETPH	Completed			02/21/13	PJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/21/13	K	EPA 1312
Total Metals Digest	Completed			02/21/13	AG	SW846 - 3050
Field Extraction	Completed			02/21/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/22/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-6

Phoenix I.D.: BD38389

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/22/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	81		%	02/22/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	370	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	97		%	02/25/13	AW	30 - 150 %
% TCMX	88		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	02/23/13	H/J	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2-Dibromoethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
2-Hexanone	ND	24	ug/Kg	02/23/13	H/J	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	02/23/13	H/J	SW8260
Acetone	ND	97	ug/Kg	02/23/13	H/J	SW8260
Acrylonitrile	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Benzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Bromobenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Bromochloromethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-6

Phoenix I.D.: BD38389

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Bromoform	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Bromomethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Chlorobenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Chloroethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Chloroform	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Chloromethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	02/23/13	H/J	SW8260
Dibromomethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Ethylbenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
m&p-Xylene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	02/23/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.7	ug/Kg	02/23/13	H/J	SW8260
Methylene chloride	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Naphthalene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
o-Xylene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Styrene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	9.7	ug/Kg	02/23/13	H/J	SW8260
Toluene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Total Xylenes	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.7	ug/Kg	02/23/13	H/J	SW8260
Trichloroethene	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Trichlorotrifluoroethane	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
Vinyl chloride	ND	4.8	ug/Kg	02/23/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	02/23/13	H/J	70 - 130 %
% Bromofluorobenzene	96		%	02/23/13	H/J	70 - 130 %
% Dibromofluoromethane	102		%	02/23/13	H/J	70 - 130 %
% Toluene-d8	97		%	02/23/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/22/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-6

Phoenix I.D.: BD38389

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	02/22/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	02/22/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	75		%	02/22/13	DD	30 - 130 %
% Nitrobenzene-d5	69		%	02/22/13	DD	30 - 130 %
% Terphenyl-d14	79		%	02/22/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 01, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

March 01, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JB	02/21/13	10:50
Location Code:	MAGUIRE	Received by:	LB	02/21/13	13:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD38387
Phoenix ID: BD38390

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-13

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	02/22/13	EK	SW6010
Arsenic	< 0.004	0.004	mg/L	02/22/13	EK	SW6010
Barium	0.855	0.002	mg/L	02/22/13	EK	SW6010
Cadmium	0.002	0.001	mg/L	02/22/13	EK	SW6010
Chromium	0.001	0.001	mg/L	02/22/13	EK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	02/23/13	LK	SW6010
Arsenic (Dissolved)	0.006	0.004	mg/L	02/23/13	LK	SW6010
Barium (Dissolved)	0.692	0.002	mg/L	02/23/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	02/23/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	02/23/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	02/22/13	RS	SW7470
Lead (Dissolved)	< 0.002	0.002	mg/L	02/23/13	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	02/23/13	LK	SW6010
Mercury	< 0.0002	0.0002	mg/L	02/22/13	RS	SW7470
Lead	0.003	0.002	mg/L	02/22/13	EK	SW6010
Selenium	0.014	0.010	mg/L	02/22/13	EK	SW6010
Extraction of CT ETPH	Completed			02/21/13	I/D	3510/3520
Dissolved Mercury Digestion	Completed			02/22/13		SW7470
Mercury Digestion	Completed			02/22/13		SW7470
PCB Extraction	Completed			02/21/13	L/T	SW3510C
Semi-Volatile Extraction	Completed			02/21/13	I/D	SW3520
Dissolved Metals Preparation	Completed			02/22/13	AG	SW846-3005
Total Metals Digestion	Completed			02/21/13	AG	
TPH by GC (Extractable Products)						
Ext. Petroleum HC	ND	0.070	mg/L	02/22/13	JRB	CTETPH/8015D
Identification	ND		mg/L	02/22/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	84		%	02/22/13	JRB	50 - 150 %

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-13

Phoenix I.D.: BD38390

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Polychlorinated Biphenyls						
PCB-1016	ND	0.50	ug/L	02/22/13	AW	8082
PCB-1221	ND	0.50	ug/L	02/22/13	AW	8082
PCB-1232	ND	0.50	ug/L	02/22/13	AW	8082
PCB-1242	ND	0.50	ug/L	02/22/13	AW	8082
PCB-1248	ND	0.50	ug/L	02/22/13	AW	8082
PCB-1254	ND	0.50	ug/L	02/22/13	AW	8082
PCB-1260	ND	0.50	ug/L	02/22/13	AW	8082
PCB-1262	ND	0.50	ug/L	02/22/13	AW	8082
PCB-1268	ND	0.50	ug/L	02/22/13	AW	8082
QA/QC Surrogates						
% DCBP	42		%	02/22/13	AW	30 - 150 %
% TCMX	87		%	02/22/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	02/22/13	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	02/22/13	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	02/22/13	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	02/22/13	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	02/22/13	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	02/22/13	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	02/22/13	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	02/22/13	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	02/22/13	H/T	SW8260
Acetone	ND	25	ug/L	02/22/13	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	02/22/13	H/T	SW8260
Benzene	ND	0.70	ug/L	02/22/13	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	02/22/13	H/T	SW8260
Bromoform	ND	1.0	ug/L	02/22/13	H/T	SW8260
Bromomethane	ND	1.0	ug/L	02/22/13	H/T	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-13

Phoenix I.D.: BD38390

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Carbon Disulfide	ND	5.0	ug/L	02/22/13	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	02/22/13	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Chloroethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
Chloroform	ND	1.0	ug/L	02/22/13	H/T	SW8260
Chloromethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	02/22/13	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	02/22/13	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	02/22/13	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	02/22/13	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	02/22/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	4.8	1.0	ug/L	02/22/13	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	02/22/13	H/T	SW8260
Naphthalene	ND	1.0	ug/L	02/22/13	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
o-Xylene	ND	1.0	ug/L	02/22/13	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	02/22/13	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Styrene	ND	1.0	ug/L	02/22/13	H/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	02/22/13	H/T	SW8260
Toluene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	02/22/13	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	02/22/13	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	02/22/13	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	02/22/13	H/T	SW8260
Trichloroethene	ND	1.0	ug/L	02/22/13	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	02/22/13	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	02/22/13	H/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	02/22/13	H/T	70 - 130 %
% Bromofluorobenzene	96		%	02/22/13	H/T	70 - 130 %
% Dibromofluoromethane	93		%	02/22/13	H/T	70 - 130 %
% Toluene-d8	99		%	02/22/13	H/T	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	0.18	0.10	ug/L	02/24/13	DD	8270(SIM)
Acenaphthene	ND	0.10	ug/L	02/24/13	DD	8270(SIM)
Acenaphthylene	ND	0.10	ug/L	02/24/13	DD	8270(SIM)
Anthracene	ND	0.10	ug/L	02/24/13	DD	8270(SIM)
Benz(a)anthracene	0.02	0.020	ug/L	02/24/13	DD	8270(SIM)
Benzo(a)pyrene	0.02	0.020	ug/L	02/24/13	DD	8270(SIM)

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-13

Phoenix I.D.: BD38390

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzo(b)fluoranthene	ND	0.020	ug/L	02/24/13	DD	8270(SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	02/24/13	DD	8270(SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	02/24/13	DD	8270(SIM)
Chrysene	ND	0.020	ug/L	02/24/13	DD	8270(SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	02/24/13	DD	8270(SIM)
Fluoranthene	ND	0.10	ug/L	02/24/13	DD	8270(SIM)
Fluorene	ND	0.10	ug/L	02/24/13	DD	8270(SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	02/24/13	DD	8270(SIM)
Naphthalene	0.18	0.10	ug/L	02/24/13	DD	8270(SIM)
Phenanthrene	ND	0.070	ug/L	02/24/13	DD	8270(SIM)
Pyrene	ND	0.10	ug/L	02/24/13	DD	8270(SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	85		%	02/24/13	DD	30 - 130 %
% Nitrobenzene-d5	120		%	02/24/13	DD	30 - 130 %
% Terphenyl-d14	108		%	02/24/13	DD	30 - 130 %

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

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 01, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

QA/QC Report

March 01, 2013

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 221714, QC Sample No: BD37829 (BD38387, BD38388, BD38389)												
ICP Metals - SPLP Extraction												
Arsenic	BRL	0.005	0.004	NC	100	96.6	3.5	103	105	1.9	75 - 125	20
Barium	BRL	0.081	0.079	2.50	103	98.5	4.5	105	107	1.9	75 - 125	20
Cadmium	BRL	<0.005	<0.005	NC	105	102	2.9	107	109	1.9	75 - 125	20
Chromium	BRL	<0.010	<0.010	NC	102	97.5	4.5	103	105	1.9	75 - 125	20
Lead	BRL	0.018	0.019	NC	101	97.8	3.2	104	105	1.0	75 - 125	20
Selenium	BRL	<0.020	<0.020	NC	101	98.2	2.8	104	106	1.9	75 - 125	20
Silver	BRL	<0.010	<0.010	NC	98.4	94.8	3.7	101	102	1.0	75 - 125	20
QA/QC Batch 221781, QC Sample No: BD38273 (BD38390)												
ICP Metals - Aqueous												
Arsenic	BRL	<0.004	<0.004	NC	98.9	105	6.0	101	102	1.0	75 - 125	20
Barium	BRL	0.018	0.019	5.40	106	109	2.8	105	107	1.9	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	99.3	105	5.6	98.5	98.6	0.1	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	97.4	104	6.6	97.5	98.1	0.6	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	98.5	105	6.4	98.8	99.1	0.3	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	99.1	107	7.7	101	102	1.0	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	98.1	103	4.9	97.8	99.7	1.9	75 - 125	20
QA/QC Batch 221787, QC Sample No: BD38388 (BD38387, BD38388, BD38389)												
ICP Metals - Soil												
Arsenic	BRL	2.0	1.97	NC	82.6	91.9	10.7	97.5	90.3	7.7	75 - 125	30
Barium	BRL	27.5	26.3	4.50	85.5	93.4	8.8	89.2	80.4	10.4	75 - 125	30
Cadmium	BRL	<0.34	<0.34	NC	90.9	96.3	5.8	103	95.5	7.6	75 - 125	30
Chromium	BRL	8.14	8.37	2.80	88.2	95.9	8.4	104	94.7	9.4	75 - 125	30
Lead	BRL	3.87	3.84	0.80	85.7	95.1	10.4	103	95.4	7.7	75 - 125	30
Selenium	BRL	<1.3	<1.3	NC	90.4	98.4	8.5	87.1	81.0	7.3	75 - 125	30
Silver	BRL	<0.34	<0.34	NC	83.9	93.6	10.9	103	93.9	9.2	75 - 125	30
QA/QC Batch 221949, QC Sample No: BD38388 (BD38387, BD38388, BD38389)												
Mercury - Soil	BRL	<0.07	<0.06	NC	95.5	101	5.6	95.6	105	9.4	70 - 130	30
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 221853, QC Sample No: BD38433 (BD38390)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	101	101	0.0	98.9	95.9	3.1	70 - 130	20
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 221950, QC Sample No: BD38490 (BD38387, BD38388, BD38389)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	101	98.6	2.4	94.4	96.7	2.4	70 - 130	20
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 221915, QC Sample No: BD39016 (BD38390)												
ICP Metals - Dissolved												
Arsenic	BRL	<0.004	<0.004	NC	94.8	97.0	2.3	99.1	98.5	0.6	75 - 125	20
Barium	BRL	0.106	0.110	3.70	96.5	99.3	2.9	99.3	96.7	2.7	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	95.1	97.5	2.5	95.8	93.6	2.3	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	93.7	97.1	3.6	96.5	94.5	2.1	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	94.8	98.4	3.7	96.8	94.9	2.0	75 - 125	20
Selenium	BRL	<0.011	<0.011	NC	89.8	92.3	2.7	95.0	94.0	1.1	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	89.4	92.6	3.5	81.3	79.9	1.7	75 - 125	20

PHOENIX

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

QA/QC Report

March 01, 2013

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 221586, QC Sample No: BD37298 (BD38390)										
Polychlorinated Biphenyls - Ground Water										
PCB-1016	ND	77	97	23.0				40 - 140	20	r
PCB-1221	ND							40 - 140	20	
PCB-1232	ND							40 - 140	20	
PCB-1242	ND							40 - 140	20	
PCB-1248	ND							40 - 140	20	
PCB-1254	ND							40 - 140	20	
PCB-1260	ND	78	91	15.4				40 - 140	20	
PCB-1262	ND							40 - 140	20	
PCB-1268	ND							40 - 140	20	
% DCBP (Surrogate Rec)	75	68	78	13.7				30 - 150	20	
% TCMX (Surrogate Rec)	63	63	78	21.3				30 - 150	20	r
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
QA/QC Batch 221677, QC Sample No: BD38023 (BD38387, BD38388, BD38389)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum HC	ND	69	71	2.9	79	69	13.5	60 - 120	30	
% n-Pentacosane	70	79	81	2.5	95	83	13.5	50 - 150	30	
QA/QC Batch 221777, QC Sample No: BD38135 (BD38390)										
Polynuclear Aromatic HC - Ground Water										
2-Methylnaphthalene	ND	72	71	1.4	71	72	1.4	30 - 130	20	
Acenaphthene	ND	86	87	1.2	85	87	2.3	30 - 130	20	
Acenaphthylene	ND	85	88	3.5	84	85	1.2	30 - 130	20	
Anthracene	ND	90	92	2.2	89	91	2.2	30 - 130	20	
Benz(a)anthracene	ND	86	86	0.0	85	85	0.0	30 - 130	20	
Benzo(a)pyrene	ND	89	90	1.1	83	85	2.4	30 - 130	20	
Benzo(b)fluoranthene	ND	92	94	2.2	84	90	6.9	30 - 130	20	
Benzo(ghi)perylene	ND	84	88	4.7	96	84	13.3	30 - 130	20	
Benzo(k)fluoranthene	ND	97	93	4.2	88	92	4.4	30 - 130	20	
Chrysene	ND	81	80	1.2	77	77	0.0	30 - 130	20	
Dibenz(a,h)anthracene	ND	92	98	6.3	105	94	11.1	30 - 130	20	
Fluoranthene	ND	89	95	6.5	109	114	4.5	30 - 130	20	
Fluorene	ND	82	86	4.8	83	85	2.4	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	90	95	5.4	100	91	9.4	30 - 130	20	
Naphthalene	ND	69	69	0.0	70	71	1.4	30 - 130	20	
Phenanthrene	ND	82	83	1.2	78	80	2.5	30 - 130	20	
Pyrene	ND	88	96	8.7	108	112	3.6	30 - 130	20	
% 2-Fluorobiphenyl	82	81	80	1.2	80	80	0.0	30 - 130	20	
% Nitrobenzene-d5	116	98	100	2.0	98	100	2.0	30 - 130	20	
% Terphenyl-d14	94	102	113	10.2	122	127	4.0	30 - 130	20	

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 221676, QC Sample No: BD38201 (BD38387, BD38388, BD38389)									
Polynuclear Aromatic HC - Soil									
2-Methylnaphthalene	ND	79	77	2.6	82	80	2.5	30 - 130	30
Acenaphthene	ND	76	72	5.4	77	74	4.0	30 - 130	30
Acenaphthylene	ND	79	76	3.9	80	77	3.8	30 - 130	30
Anthracene	ND	83	79	4.9	84	80	4.9	30 - 130	30
Benz(a)anthracene	ND	82	77	6.3	82	78	5.0	30 - 130	30
Benzo(a)pyrene	ND	78	74	5.3	78	74	5.3	30 - 130	30
Benzo(b)fluoranthene	ND	83	81	2.4	82	84	2.4	30 - 130	30
Benzo(ghi)perylene	ND	97	89	8.6	96	89	7.6	30 - 130	30
Benzo(k)fluoranthene	ND	81	75	7.7	85	75	12.5	30 - 130	30
Chrysene	ND	84	82	2.4	87	82	5.9	30 - 130	30
Dibenz(a,h)anthracene	ND	93	85	9.0	92	87	5.6	30 - 130	30
Fluoranthene	ND	83	78	6.2	83	80	3.7	30 - 130	30
Fluorene	ND	80	76	5.1	80	77	3.8	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	95	88	7.7	94	89	5.5	30 - 130	30
Naphthalene	ND	75	73	2.7	78	76	2.6	30 - 130	30
Phenanthrene	ND	84	79	6.1	84	81	3.6	30 - 130	30
Pyrene	ND	81	78	3.8	83	79	4.9	30 - 130	30
% 2-Fluorobiphenyl	76	79	75	5.2	78	76	2.6	30 - 130	30
% Nitrobenzene-d5	70	67	66	1.5	68	67	1.5	30 - 130	30
% Terphenyl-d14	81	86	82	4.8	87	83	4.7	30 - 130	30
QA/QC Batch 221776, QC Sample No: BD38388 (BD38387, BD38388, BD38389)									
Polychlorinated Biphenyls - Soil									
PCB-1016	ND	58	64	9.8	78	67	15.2	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	70	67	4.4	69	62	10.7	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	74	63	62	1.6	64	54	16.9	30 - 150	30
% TCMX (Surrogate Rec)	89	71	78	9.4	83	71	15.6	30 - 150	30
QA/QC Batch 221868, QC Sample No: BD38475 (BD38390)									
Volatiles - Ground Water									
1,1,1,2-Tetrachloroethane	ND	104	98	5.9	108	107	0.9	70 - 130	30
1,1,1-Trichloroethane	ND	94	89	5.5	107	101	5.8	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	99	94	5.2	102	98	4.0	70 - 130	30
1,1,2-Trichloroethane	ND	104	100	3.9	107	102	4.8	70 - 130	30
1,1-Dichloroethane	ND	97	92	5.3	107	99	7.8	70 - 130	30
1,1-Dichloroethene	ND	95	91	4.3	106	102	3.8	70 - 130	30
1,1-Dichloropropene	ND	101	93	8.2	110	108	1.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	106	100	5.8	107	110	2.8	70 - 130	30
1,2,3-Trichloropropane	ND	99	95	4.1	105	95	10.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	104	96	8.0	107	109	1.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	105	98	6.9	108	104	3.8	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	100	98	2.0	100	102	2.0	70 - 130	30
1,2-Dibromoethane	ND	102	99	3.0	107	104	2.8	70 - 130	30
1,2-Dichlorobenzene	ND	100	95	5.1	104	103	1.0	70 - 130	30

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dichloroethane	ND	99	96	3.1	106	101	4.8	70 - 130	30
1,2-Dichloropropane	ND	100	95	5.1	104	101	2.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	104	96	8.0	108	105	2.8	70 - 130	30
1,3-Dichlorobenzene	ND	102	95	7.1	104	104	0.0	70 - 130	30
1,3-Dichloropropane	ND	103	98	5.0	104	102	1.9	70 - 130	30
1,4-Dichlorobenzene	ND	101	94	7.2	103	102	1.0	70 - 130	30
2,2-Dichloropropane	ND	71	69	2.9	86	78	9.8	70 - 130	30
2-Chlorotoluene	ND	104	96	8.0	106	104	1.9	70 - 130	30
2-Hexanone	ND	99	101	2.0	105	100	4.9	70 - 130	30
2-Isopropyltoluene	ND	99	92	7.3	109	106	2.8	70 - 130	30
4-Chlorotoluene	ND	99	94	5.2	106	103	2.9	70 - 130	30
4-Methyl-2-pentanone	ND	99	96	3.1	106	100	5.8	70 - 130	30
Acetone	ND	99	100	1.0	113	104	8.3	70 - 130	30
Acrylonitrile	ND	105	103	1.9	100	103	3.0	70 - 130	30
Benzene	ND	101	95	6.1	107	102	4.8	70 - 130	30
Bromobenzene	ND	103	95	8.1	105	105	0.0	70 - 130	30
Bromochloromethane	ND	96	93	3.2	98	96	2.1	70 - 130	30
Bromodichloromethane	ND	102	96	6.1	106	103	2.9	70 - 130	30
Bromoform	ND	100	97	3.0	99	102	3.0	70 - 130	30
Bromomethane	ND	99	95	4.1	88	96	8.7	70 - 130	30
Carbon Disulfide	ND	90	86	4.5	101	99	2.0	70 - 130	30
Carbon tetrachloride	ND	97	90	7.5	112	111	0.9	70 - 130	30
Chlorobenzene	ND	101	96	5.1	105	103	1.9	70 - 130	30
Chloroethane	ND	99	95	4.1	107	99	7.8	70 - 130	30
Chloroform	ND	97	92	5.3	103	96	7.0	70 - 130	30
Chloromethane	ND	95	91	4.3	98	93	5.2	70 - 130	30
cis-1,2-Dichloroethene	ND	102	98	4.0	107	101	5.8	70 - 130	30
cis-1,3-Dichloropropene	ND	99	96	3.1	107	104	2.8	70 - 130	30
Dibromochloromethane	ND	104	100	3.9	106	104	1.9	70 - 130	30
Dibromomethane	ND	102	99	3.0	104	100	3.9	70 - 130	30
Dichlorodifluoromethane	ND	101	95	6.1	112	106	5.5	70 - 130	30
Ethylbenzene	ND	100	94	6.2	108	106	1.9	70 - 130	30
Hexachlorobutadiene	ND	90	80	11.8	102	105	2.9	70 - 130	30
Isopropylbenzene	ND	104	98	5.9	110	109	0.9	70 - 130	30
m&p-Xylene	ND	101	95	6.1	108	104	3.8	70 - 130	30
Methyl ethyl ketone	ND	85	85	0.0	103	90	13.5	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	97	93	4.2	107	104	2.8	70 - 130	30
Methylene chloride	ND	98	94	4.2	100	95	5.1	70 - 130	30
Naphthalene	ND	113	108	4.5	113	117	3.5	70 - 130	30
n-Butylbenzene	ND	98	91	7.4	108	104	3.8	70 - 130	30
n-Propylbenzene	ND	106	99	6.8	109	107	1.9	70 - 130	30
o-Xylene	ND	105	99	5.9	108	105	2.8	70 - 130	30
p-Isopropyltoluene	ND	103	96	7.0	109	107	1.9	70 - 130	30
sec-Butylbenzene	ND	99	92	7.3	109	106	2.8	70 - 130	30
Styrene	ND	100	95	5.1	107	105	1.9	70 - 130	30
tert-Butylbenzene	ND	103	96	7.0	110	108	1.8	70 - 130	30
Tetrachloroethene	ND	98	90	8.5	106	105	0.9	70 - 130	30
Tetrahydrofuran (THF)	ND	98	96	2.1	101	90	11.5	70 - 130	30
Toluene	ND	101	94	7.2	107	104	2.8	70 - 130	30
trans-1,2-Dichloroethene	ND	98	91	7.4	106	101	4.8	70 - 130	30
trans-1,3-Dichloropropene	ND	96	92	4.3	105	100	4.9	70 - 130	30
trans-1,4-dichloro-2-butene	ND	86	83	3.6	86	85	1.2	70 - 130	30
Trichloroethene	ND	106	98	7.8	109	107	1.9	70 - 130	30

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorofluoromethane	ND	93	87	6.7	107	102	4.8	70 - 130	30	
Trichlorotrifluoroethane	ND	90	84	6.9	107	104	2.8	70 - 130	30	
Vinyl chloride	ND	94	89	5.5	104	100	3.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	101	99	2.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	93	98	98	0.0	100	99	1.0	70 - 130	30	
% Dibromofluoromethane	96	95	96	1.0	94	94	0.0	70 - 130	30	
% Toluene-d8	98	100	100	0.0	100	98	2.0	70 - 130	30	

Comment:

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

QA/QC Batch 221980, QC Sample No: BD38590 (BD38388, BD38389)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	105	102	2.9	102	99	3.0	70 - 130	30	
1,1,1-Trichloroethane	ND	106	105	0.9	105	107	1.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	86	86	0.0	82	82	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	103	109	5.7	100	103	3.0	70 - 130	30	
1,1-Dichloroethane	ND	88	87	1.1	87	97	10.9	70 - 130	30	
1,1-Dichloroethene	ND	97	97	0.0	100	101	1.0	70 - 130	30	
1,1-Dichloropropene	ND	93	96	3.2	92	95	3.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	86	93	7.8	83	90	8.1	70 - 130	30	
1,2,3-Trichloropropane	ND	86	88	2.3	89	94	5.5	70 - 130	30	
1,2,4-Trichlorobenzene	ND	81	87	7.1	78	81	3.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	90	93	3.3	83	84	1.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	94	88	6.6	91	96	5.3	70 - 130	30	
1,2-Dibromoethane	ND	100	108	7.7	99	106	6.8	70 - 130	30	
1,2-Dichlorobenzene	ND	92	97	5.3	87	92	5.6	70 - 130	30	
1,2-Dichloroethane	ND	106	107	0.9	107	108	0.9	70 - 130	30	
1,2-Dichloropropane	ND	94	98	4.2	92	97	5.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	89	94	5.5	85	86	1.2	70 - 130	30	
1,3-Dichlorobenzene	ND	88	95	7.7	82	86	4.8	70 - 130	30	
1,3-Dichloropropane	ND	96	93	3.2	95	91	4.3	70 - 130	30	
1,4-Dichlorobenzene	ND	87	94	7.7	82	85	3.6	70 - 130	30	
2,2-Dichloropropane	ND	100	97	3.0	96	95	1.0	70 - 130	30	
2-Chlorotoluene	ND	88	93	5.5	85	87	2.3	70 - 130	30	
2-Hexanone	ND	74	75	1.3	76	72	5.4	70 - 130	30	
2-Isopropyltoluene	ND	88	91	3.4	86	88	2.3	70 - 130	30	
4-Chlorotoluene	ND	84	91	8.0	81	83	2.4	70 - 130	30	
4-Methyl-2-pentanone	ND	91	98	7.4	94	97	3.1	70 - 130	30	
Acetone	ND	71	69	2.9	74	69	7.0	70 - 130	30	l,m
Acrylonitrile	ND	84	90	6.9	87	99	12.9	70 - 130	30	
Benzene	ND	93	94	1.1	93	94	1.1	70 - 130	30	
Bromobenzene	ND	97	99	2.0	91	93	2.2	70 - 130	30	
Bromochloromethane	ND	100	102	2.0	103	105	1.9	70 - 130	30	
Bromodichloromethane	ND	108	109	0.9	101	108	6.7	70 - 130	30	
Bromoform	ND	109	112	2.7	101	102	1.0	70 - 130	30	
Bromomethane	ND	103	88	15.7	99	97	2.0	70 - 130	30	
Carbon Disulfide	ND	88	89	1.1	95	97	2.1	70 - 130	30	
Carbon tetrachloride	ND	106	110	3.7	102	106	3.8	70 - 130	30	
Chlorobenzene	ND	94	97	3.1	92	92	0.0	70 - 130	30	
Chloroethane	ND	99	99	0.0	98	100	2.0	70 - 130	30	
Chloroform	ND	106	102	3.8	103	104	1.0	70 - 130	30	
Chloromethane	ND	83	83	0.0	83	87	4.7	70 - 130	30	
cis-1,2-Dichloroethene	ND	102	95	7.1	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	94	97	3.1	92	95	3.2	70 - 130	30
Dibromochloromethane	ND	108	103	4.7	101	99	2.0	70 - 130	30
Dibromomethane	ND	101	106	4.8	99	104	4.9	70 - 130	30
Dichlorodifluoromethane	ND	89	101	12.6	87	90	3.4	70 - 130	30
Ethylbenzene	ND	90	94	4.3	90	91	1.1	70 - 130	30
Hexachlorobutadiene	ND	86	88	2.3	87	93	6.7	70 - 130	30
Isopropylbenzene	ND	90	93	3.3	85	86	1.2	70 - 130	30
m&p-Xylene	ND	87	95	8.8	87	88	1.1	70 - 130	30
Methyl ethyl ketone	ND	67	66	1.5	76	71	6.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	98	97	1.0	101	100	1.0	70 - 130	30
Methylene chloride	ND	93	96	3.2	95	96	1.0	70 - 130	30
Naphthalene	ND	93	94	1.1	90	94	4.3	70 - 130	30
n-Butylbenzene	ND	81	83	2.4	78	78	0.0	70 - 130	30
n-Propylbenzene	ND	89	95	6.5	84	85	1.2	70 - 130	30
o-Xylene	ND	95	100	5.1	90	90	0.0	70 - 130	30
p-Isopropyltoluene	ND	86	91	5.6	81	84	3.6	70 - 130	30
sec-Butylbenzene	ND	86	91	5.6	83	86	3.6	70 - 130	30
Styrene	ND	90	98	8.5	88	92	4.4	70 - 130	30
tert-Butylbenzene	ND	93	97	4.2	88	91	3.4	70 - 130	30
Tetrachloroethene	ND	93	94	1.1	91	89	2.2	70 - 130	30
Tetrahydrofuran (THF)	ND	93	97	4.2	96	100	4.1	70 - 130	30
Toluene	ND	93	102	9.2	92	97	5.3	70 - 130	30
trans-1,2-Dichloroethene	ND	100	98	2.0	101	99	2.0	70 - 130	30
trans-1,3-Dichloropropene	ND	101	105	3.9	98	101	3.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	91	85	6.8	84	79	6.1	70 - 130	30
Trichloroethene	ND	103	111	7.5	101	105	3.9	70 - 130	30
Trichlorofluoromethane	ND	107	108	0.9	106	108	1.9	70 - 130	30
Trichlorotrifluoroethane	ND	99	101	2.0	105	102	2.9	70 - 130	30
Vinyl chloride	ND	90	94	4.3	89	93	4.4	70 - 130	30
% 1,2-dichlorobenzene-d4	98	102	100	2.0	99	102	3.0	70 - 130	30
% Bromofluorobenzene	95	101	102	1.0	101	101	0.0	70 - 130	30
% Dibromofluoromethane	101	106	99	6.8	107	106	0.9	70 - 130	30
% Toluene-d8	97	99	104	4.9	98	103	5.0	70 - 130	30

Comment:

A blank MS/MSD was analyzed with this batch.

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

QA/QC Batch 222047, QC Sample No: BD38697 (BD38387)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	108	109	0.9	102	103	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	105	102	2.9	100	105	4.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	94	90	4.3	93	98	5.2	70 - 130	30
1,1,2-Trichloroethane	ND	101	99	2.0	96	101	5.1	70 - 130	30
1,1-Dichloroethane	ND	94	84	11.2	82	93	12.6	70 - 130	30
1,1-Dichloroethene	ND	99	95	4.1	84	90	6.9	70 - 130	30
1,1-Dichloropropene	ND	97	96	1.0	94	99	5.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	113	110	2.7	103	112	8.4	70 - 130	30
1,2,3-Trichloropropane	ND	92	79	15.2	92	98	6.3	70 - 130	30
1,2,4-Trichlorobenzene	ND	112	113	0.9	109	114	4.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	101	105	3.9	99	100	1.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	107	98	8.8	88	95	7.7	70 - 130	30
1,2-Dibromoethane	ND	101	99	2.0	98	106	7.8	70 - 130	30
1,2-Dichlorobenzene	ND	106	105	0.9	98	106	7.8	70 - 130	30

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloroethane	ND	106	104	1.9	102	107	4.8	70 - 130	30	
1,2-Dichloropropane	ND	95	93	2.1	91	98	7.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	99	102	3.0	98	100	2.0	70 - 130	30	
1,3-Dichlorobenzene	ND	106	106	0.0	100	106	5.8	70 - 130	30	
1,3-Dichloropropane	ND	95	97	2.1	95	92	3.2	70 - 130	30	
1,4-Dichlorobenzene	ND	106	107	0.9	99	106	6.8	70 - 130	30	
2,2-Dichloropropane	ND	106	104	1.9	97	100	3.0	70 - 130	30	
2-Chlorotoluene	ND	98	98	0.0	98	102	4.0	70 - 130	30	
2-Hexanone	ND	80	77	3.8	62	62	0.0	70 - 130	30	m
2-Isopropyltoluene	ND	98	97	1.0	93	99	6.3	70 - 130	30	
4-Chlorotoluene	ND	99	99	0.0	98	102	4.0	70 - 130	30	
4-Methyl-2-pentanone	ND	90	88	2.2	86	94	8.9	70 - 130	30	
Acetone	ND	68	70	2.9	<40	<40	NC	70 - 130	30	l,m
Acrylonitrile	ND	92	77	17.8	79	94	17.3	70 - 130	30	
Benzene	ND	93	93	0.0	91	97	6.4	70 - 130	30	
Bromobenzene	ND	103	104	1.0	101	104	2.9	70 - 130	30	
Bromochloromethane	ND	99	97	2.0	94	98	4.2	70 - 130	30	
Bromodichloromethane	ND	110	107	2.8	100	105	4.9	70 - 130	30	
Bromoform	ND	120	118	1.7	95	98	3.1	70 - 130	30	
Bromomethane	ND	97	98	1.0	60	62	3.3	70 - 130	30	m
Carbon Disulfide	ND	94	89	5.5	79	87	9.6	70 - 130	30	
Carbon tetrachloride	ND	112	109	2.7	100	106	5.8	70 - 130	30	
Chlorobenzene	ND	101	101	0.0	99	102	3.0	70 - 130	30	
Chloroethane	ND	103	97	6.0	<40	<40	NC	70 - 130	30	m
Chloroform	ND	100	99	1.0	98	100	2.0	70 - 130	30	
Chloromethane	ND	90	83	8.1	78	87	10.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	99	93	6.3	96	95	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	97	97	0.0	94	100	6.2	70 - 130	30	
Dibromochloromethane	ND	111	110	0.9	99	99	0.0	70 - 130	30	
Dibromomethane	ND	103	100	3.0	94	102	8.2	70 - 130	30	
Dichlorodifluoromethane	ND	108	98	9.7	85	98	14.2	70 - 130	30	
Ethylbenzene	ND	98	96	2.1	97	101	4.0	70 - 130	30	
Hexachlorobutadiene	ND	108	107	0.9	108	117	8.0	70 - 130	30	
Isopropylbenzene	ND	98	99	1.0	94	98	4.2	70 - 130	30	
m&p-Xylene	ND	99	97	2.0	95	102	7.1	70 - 130	30	
Methyl ethyl ketone	ND	62	59	5.0	55	55	0.0	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	96	94	2.1	93	98	5.2	70 - 130	30	
Methylene chloride	ND	92	89	3.3	90	94	4.3	70 - 130	30	
Naphthalene	ND	104	101	2.9	99	108	8.7	70 - 130	30	
n-Butylbenzene	ND	101	105	3.9	95	99	4.1	70 - 130	30	
n-Propylbenzene	ND	102	102	0.0	97	102	5.0	70 - 130	30	
o-Xylene	ND	106	102	3.8	96	100	4.1	70 - 130	30	
p-Isopropyltoluene	ND	103	104	1.0	98	101	3.0	70 - 130	30	
sec-Butylbenzene	ND	97	95	2.1	94	100	6.2	70 - 130	30	
Styrene	ND	101	98	3.0	96	102	6.1	70 - 130	30	
tert-Butylbenzene	ND	101	100	1.0	96	103	7.0	70 - 130	30	
Tetrachloroethene	ND	104	105	1.0	103	104	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	92	85	7.9	85	92	7.9	70 - 130	30	
Toluene	ND	98	94	4.2	95	105	10.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	101	99	2.0	96	96	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	105	103	1.9	99	108	8.7	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	97	99	2.0	89	88	1.1	70 - 130	30	
Trichloroethene	ND	105	103	1.9	95	100	5.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBD38387

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorofluoromethane	ND	115	109	5.4	<40	43	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	107	103	3.8	93	97	4.2	70 - 130	30	
Vinyl chloride	ND	97	90	7.5	89	101	12.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	102	101	1.0	97	101	4.0	70 - 130	30	
% Bromofluorobenzene	94	101	100	1.0	103	102	1.0	70 - 130	30	
% Dibromofluoromethane	106	105	102	2.9	102	96	6.1	70 - 130	30	
% Toluene-d8	94	100	98	2.0	99	103	4.0	70 - 130	30	

Comment:

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

QA/QC Batch 221796, QC Sample No: BD38713 (BD38390)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum HC	ND	86	88	2.3	73	85	15.2	60 - 120	20
% n-Pentacosane	97	100	98	2.0	92	101	9.3	50 - 150	20

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
March 01, 2013

Sample Criteria Exceedences Report

GBD38387 - MAGUIRE

Requested Criteria: GBM, GWP, RC, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD38387	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	750	11	500	500	mg/Kg
BD38387	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.606	0.010	0.15	0.15	mg/L
BD38390	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BD38390	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BD38390	D-AS	Arsenic (Dissolved)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.006	0.004	0.004	0.004	mg/L

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGUIRE

Project Location: MIDDLETOWN PUMP STATION **Project Number:**

Laboratory Sample ID(s): BD38387, BD38388, BD38389, BD38390

Sampling Date(s): 2/21/2013

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☑ 7470/7471	☐ 8081	☐ EPH	☐ TO15
☑ 8082	☐ 8151	☑ 8260	☑ 8270	☑ ETPH	☐ 9010/9012	☐ VPH	

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: PCB Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Friday, March 01, 2013

Printed Name: Maryam Taylor

Position: Project Manager

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

The client requested a shorter list of elements than the 6010 RCP list.

Volatile 8260 analysis: (BD38390)
The reporting level for Acrylonitrile is above the GWP criteria.
1,2-Dibromoethane does not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:(BD38390)
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

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

Instrument: Au-xl2 02/22/13-1 (BD38387, BD38388, BD38389, BD38390)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Jeff Bucko
Position: Chemist
Date: 2/22/2013

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

QC (Batch Specific)

---------- Sample No: BD38023, QA/QC Batch: 221677 ----------

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.

---------- Sample No: BD38713, QA/QC Batch: 221796 ----------

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 20% with the following exceptions: None.

Mercury Narration

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

Instrument: Merlin 02/22/13-1 (BD38390)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 2/22/2013

Instrument: Merlin 02/25/13-1 (BD38387, BD38388, BD38389)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 2/25/2013

Instrument: Merlin 02/27/13-1 (BD38387, BD38388, BD38389)

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 2/27/2013

QC (Site Specific)

---------- Sample No: BD38388, QA/QC Batch: 221949 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD38433, QA/QC Batch: 221853 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD38490, QA/QC Batch: 221950 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

ICP Narration

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

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

Instrument: Arcos 02/22/13-1 (BD38387, BD38388, BD38389)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 2/22/2013

Instrument: Blue 02/22/13-1 (BD38390)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 2/22/2013

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

QC (Site Specific)

---------- Sample No: BD38388, QA/QC Batch: 221787 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD37829, QA/QC Batch: 221714 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD38273, QA/QC Batch: 221781 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD39016, QA/QC Batch: 221915 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PAH Narration

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

Instrument: Chem12 02/21/13-1 (BD38387, BD38388, BD38389)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

Initial Calibration (Chem12/BN_0207)
Greater than 90% of the target compounds met calibration criteria: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 2/21/2013

QC (Batch Specific)

---------- Sample No: BD38201, QA/QC Batch: 221676 ----------

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.

PAHSIM Narration

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

Instrument: Chem04 02/25/13-2 (BD38390)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

Initial Calibration (Chem04/BNSIM_0212)
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibraion criteria with a %D <20. The following compunds had >20% difference from the initial calibration: % Nitrobenzene-d5

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

Printed Name Damien Drobinski
Position: Chemist
Date: 2/25/2013

QC (Batch Specific)

---------- Sample No: BD38135, QA/QC Batch: 221777 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PCB Narration

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

QC Batch 221586 (Samples: BD38390): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (PCB-1016)

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

Instrument: Au-ecd24 02/22/13-1 (BD38390)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/22/2013

Instrument: Au-ecd3 02/22/13-1 (BD38387, BD38388, BD38389)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/22/2013

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

QC Comments: QC Batch 221586 02/19/13 (BD38390)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Site Specific)

---------- Sample No: BD38388, QA/QC Batch: 221776 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD37298, QA/QC Batch: 221586 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: % TCMX (Surrogate Rec)(21.3%), PCB-1016(23.0%)

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

VOA Narration

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

QC Batch 221868 (Samples: BD38390): -----

The LCS and/or the LCSD recovery is below the lower range, but within the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (2,2-Dichloropropane)

QC Batch 221980 (Samples: BD38388, BD38389): -----

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is possible. (Acetone)

The LCS/LCSD recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is possible. (Methyl ethyl ketone)

QC Batch 222047 (Samples: BD38387): -----

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is likely. (Acetone)

The QC recoveries for one or more analytes is below the lower range, but within the method criteria. A slight low bias is likely. (Methyl ethyl ketone)

Instrument: Chem02 02/21/13-2 (BD38390)

P-Side
(Initial Calibration RPP_0218):
All SPCCs, CCCs and >80% of target compounds met criteria except that the following compounds had %RSDs >20%: Trans-1,4-dichloro-2-butene, Naphthalene

Continuing Calibration Verification:
All SPCCs, CCCs and >80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >30%: 2,2-Dichloropropane, Tetrahydrofuran (THF)

Printed Name Tina Covensky
Position: Chemist
Date: 2/21/2013

Instrument: Chem18 02/22/13-1 (BD38387)

Initial Calibration Verification (CHEM18/RCPS_0207):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Acrolein and Acetone.

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Acetone, Methyl Ethyl Ketone

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

Printed Name Johanna Harrington
Position: Chemist
Date: 2/22/2013

Instrument: Chem18 02/22/13-2 (BD38388, BD38389)

Initial Calibration Verification (CHEM18/RCPS_0207):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Acrolein and Acetone.

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Dichlorodifluoromethane, Acrolein, Acetone, Methyl Ethyl Ketone, 2-Hexanone, n-Butylbenzene

Printed Name Johanna Harrington
Position: Chemist
Date: 2/22/2013

QC Comments: QC Batch 221980 02/22/13 (BD38388, BD38389)

A blank MS/MSD was analyzed with this batch.

QC (Batch Specific)

---------- Sample No: BD38475, QA/QC Batch: 221868 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(69%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD38590, QA/QC Batch: 221980 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Methyl ethyl ketone(67%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(69%), Methyl ethyl ketone(66%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD38697, QA/QC Batch: 222047 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(68%), Methyl ethyl ketone(62%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Methyl ethyl ketone(59%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

RCP Certification Report

March 01, 2013

SDG I.D.: GBD38387

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] N [ ]

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Temp 1 °C Pg 1 of 1

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

Data Delivery:
[ ] Fax #:
[X] Email: janewitherell@CDRMaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Highway
Rocky Hill, CT 06067

Project: Middletown Pump Station
Report to: Jane Witherell
Invoice to: CDR Maguire - Bid Prices

Project P.O: 14712.02
Phone #: 860-563-3162
Fax #:

Client Sample Information - Identification

Sampler's Signature: Joseph Buehler
Date: 2/21/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	PAHs	TPH	PCBs	Total RCRA Metals	SPLP RCRA Metals	Dissolved RCRA Metals						Soil VOA Vials [1 methanol] [2 H2O]	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [3 HCl]	GL Amber 1000ml [4 As is] [ ] H2SO4	PL As is [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
38387	PSGP-4	S	2/21/13	11:45	X	X	X	X	X	X							3	2								
38388	PSGP-5	S	↓	12:20	X	X	X	X	X	X							3	2								
38389	PSGP-6	S	↓	12:05	X	X	X	X	X	X							3	2								
38390	MW-13	GW	↓	10:50	X	X	X	X	X		X									3	4				2	

Relinquished by:	Accepted by:	Date:	Time:
[signature]	O'Paradise	2/21/13	1329

Comments, Special Requirements or Regulations:
PSGP-4 8'-10'
PSGP-5 8'-10'
PSGP-6 3'-5'

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

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

CT
[X] RCP Cert
[X] GW Protection
[X] SW Protection
[ ] GA Mobility
[X] 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

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

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

State where samples were collected: CT

PHOENIX
Environmental Laboratories, Inc.

Tuesday, March 05, 2013

Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Project ID: MIDDLETOWN PUMP STATION
Sample ID#s: BD39015 - BD39023

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/22/13	8:00
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	02/25/13	EK	SW6010
Arsenic	3.1	0.8	mg/Kg	02/25/13	EK	SW6010
Barium	114	0.40	mg/Kg	02/25/13	EK	SW6010
Cadmium	< 0.40	0.40	mg/Kg	02/25/13	EK	SW6010
Chromium	29.4	0.40	mg/Kg	02/25/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/27/13	RS	SW-7471
Lead	19.1	0.40	mg/Kg	02/25/13	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	02/25/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Arsenic	0.012	0.004	mg/L	02/25/13	EK	SW6010
SPLP Barium	0.443	0.010	mg/L	02/25/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
SPLP Chromium	0.027	0.010	mg/L	02/25/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	0.050	0.010	mg/L	02/25/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/25/13	EK	SW6010
SPLP Metals Digestion	Completed			02/25/13	X/X	SW846-3005
Percent Solid	86		%	02/23/13	JL	E160.3
Soil Extraction for PCB	Completed			02/22/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/22/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/22/13	JJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/22/13	X	EPA 1312
Total Metals Digest	Completed			02/22/13	AG	SW846 - 3050
Field Extraction	Completed			02/22/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	1900	58	mg/Kg	02/24/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-10

Phoenix I.D.: BD39015

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	02/24/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	Diluted Out		%	02/24/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	390	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	390	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	390	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	390	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	390	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	390	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	390	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	390	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	390	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	84		%	02/25/13	AW	30 - 150 %
% TCMX	86		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,1,1-Trichloroethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	170	ug/Kg	02/25/13	H/J	SW8260
1,1,2-Trichloroethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,1-Dichloroethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,1-Dichloroethene	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,1-Dichloropropene	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,2,3-Trichloropropane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,2,4-Trimethylbenzene	2300	280	ug/Kg	02/25/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,2-Dibromoethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,2-Dichlorobenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,2-Dichloroethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,2-Dichloropropane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,3,5-Trimethylbenzene	820	280	ug/Kg	02/25/13	H/J	SW8260
1,3-Dichlorobenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,3-Dichloropropane	ND	280	ug/Kg	02/25/13	H/J	SW8260
1,4-Dichlorobenzene	640	280	ug/Kg	02/25/13	H/J	SW8260
2,2-Dichloropropane	ND	280	ug/Kg	02/25/13	H/J	SW8260
2-Chlorotoluene	ND	280	ug/Kg	02/25/13	H/J	SW8260
2-Hexanone	ND	1400	ug/Kg	02/25/13	H/J	SW8260
2-Isopropyltoluene	ND	280	ug/Kg	02/25/13	H/J	SW8260
4-Chlorotoluene	ND	280	ug/Kg	02/25/13	H/J	SW8260
4-Methyl-2-pentanone	ND	1400	ug/Kg	02/25/13	H/J	SW8260
Acetone	ND	5500	ug/Kg	02/25/13	H/J	SW8260
Acrylonitrile	ND	280	ug/Kg	02/25/13	H/J	SW8260
Benzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Bromobenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Bromochloromethane	ND	280	ug/Kg	02/25/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-10

Phoenix I.D.: BD39015

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
Bromoform	ND	280	ug/Kg	02/25/13	H/J	SW8260
Bromomethane	ND	500	ug/Kg	02/25/13	H/J	SW8260
Carbon Disulfide	ND	280	ug/Kg	02/25/13	H/J	SW8260
Carbon tetrachloride	ND	280	ug/Kg	02/25/13	H/J	SW8260
Chlorobenzene	420	280	ug/Kg	02/25/13	H/J	SW8260
Chloroethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
Chloroform	ND	280	ug/Kg	02/25/13	H/J	SW8260
Chloromethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	280	ug/Kg	02/25/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Dibromochloromethane	ND	170	ug/Kg	02/25/13	H/J	SW8260
Dibromomethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
Dichlorodifluoromethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
Ethylbenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Hexachlorobutadiene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Isopropylbenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
m&p-Xylene	560	280	ug/Kg	02/25/13	H/J	SW8260
Methyl Ethyl Ketone	ND	1700	ug/Kg	02/25/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	550	ug/Kg	02/25/13	H/J	SW8260
Methylene chloride	ND	280	ug/Kg	02/25/13	H/J	SW8260
Naphthalene	1600	280	ug/Kg	02/25/13	H/J	SW8260
n-Butylbenzene	450	280	ug/Kg	02/25/13	H/J	SW8260
n-Propylbenzene	290	280	ug/Kg	02/25/13	H/J	SW8260
o-Xylene	280	280	ug/Kg	02/25/13	H/J	SW8260
p-Isopropyltoluene	780	280	ug/Kg	02/25/13	H/J	SW8260
sec-Butylbenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Styrene	ND	280	ug/Kg	02/25/13	H/J	SW8260
tert-Butylbenzene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Tetrachloroethene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	550	ug/Kg	02/25/13	H/J	SW8260
Toluene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Total Xylenes	840	280	ug/Kg	02/25/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	280	ug/Kg	02/25/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	280	ug/Kg	02/25/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	550	ug/Kg	02/25/13	H/J	SW8260
Trichloroethene	ND	280	ug/Kg	02/25/13	H/J	SW8260
Trichlorofluoromethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
Trichlorotrifluoroethane	ND	280	ug/Kg	02/25/13	H/J	SW8260
Vinyl chloride	ND	280	ug/Kg	02/25/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	02/25/13	H/J	70 - 130 %
% Bromofluorobenzene	99		%	02/25/13	H/J	70 - 130 %
% Dibromofluoromethane	93		%	02/25/13	H/J	70 - 130 %
% Toluene-d8	97		%	02/25/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	1300	270	ug/Kg	02/23/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	02/23/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	02/23/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-10

Phoenix I.D.: BD39015

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	330	270	ug/Kg	02/23/13	DD	SW 8270
Benz(a)anthracene	550	270	ug/Kg	02/23/13	DD	SW 8270
Benzo(a)pyrene	510	270	ug/Kg	02/23/13	DD	SW 8270
Benzo(b)fluoranthene	760	270	ug/Kg	02/23/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	02/23/13	DD	SW 8270
Benzo(k)fluoranthene	320	270	ug/Kg	02/23/13	DD	SW 8270
Chrysene	690	270	ug/Kg	02/23/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	02/23/13	DD	SW 8270
Fluoranthene	1200	270	ug/Kg	02/23/13	DD	SW 8270
Fluorene	270	270	ug/Kg	02/23/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	02/23/13	DD	SW 8270
Naphthalene	350	270	ug/Kg	02/23/13	DD	SW 8270
Phenanthrene	1300	270	ug/Kg	02/23/13	DD	SW 8270
Pyrene	1100	270	ug/Kg	02/23/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	87		%	02/23/13	DD	30 - 130 %
% Nitrobenzene-d5	72		%	02/23/13	DD	30 - 130 %
% Terphenyl-d14	80		%	02/23/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JB	02/22/13	8:10
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39016

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
Arsenic	0.023	0.004	mg/L	02/25/13	EK	SW6010
Barium	1.95	0.002	mg/L	02/25/13	EK	SW6010
Cadmium	0.007	0.001	mg/L	02/25/13	EK	SW6010
Chromium	0.236	0.001	mg/L	02/25/13	EK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	02/23/13	LK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	02/23/13	LK	SW6010
Barium (Dissolved)	0.106	0.002	mg/L	02/23/13	LK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	02/23/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	02/23/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	02/25/13	RS	SW7470
Lead (Dissolved)	< 0.002	0.002	mg/L	02/23/13	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	02/23/13	LK	SW6010
Mercury	0.0009	0.0002	mg/L	02/25/13	RS	SW7470
Lead	0.203	0.002	mg/L	02/25/13	EK	SW6010
Selenium	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
Extraction of CT ETPH	Completed			02/25/13	I/D	3510/3520
Dissolved Mercury Digestion	Completed			02/25/13	X/X	SW7470
Mercury Digestion	Completed			02/25/13	X/X	SW7470
PCB Extraction	Completed			02/22/13	LT	SW3510C
Semi-Volatile Extraction	Completed			02/22/13	I/D	SW3520
Dissolved Metals Preparation	Completed			02/22/13	AG	SW846-3005
Total Metals Digestion	Completed			02/22/13	AG	
TPH by GC (Extractable Products)						
Ext. Petroleum HC	0.82	0.070	mg/L	02/26/13	JRB	CTETPH/8015D
Identification	**		mg/L	02/26/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	101		%	02/26/13	JRB	50 - 150 %

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-10

Phoenix I.D.: BD39016

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Polychlorinated Biphenyls						
PCB-1016	ND	0.50	ug/L	02/25/13	AW	8082
PCB-1221	ND	0.50	ug/L	02/25/13	AW	8082
PCB-1232	ND	0.50	ug/L	02/25/13	AW	8082
PCB-1242	ND	0.50	ug/L	02/25/13	AW	8082
PCB-1248	ND	0.50	ug/L	02/25/13	AW	8082
PCB-1254	ND	0.50	ug/L	02/25/13	AW	8082
PCB-1260	ND	0.50	ug/L	02/25/13	AW	8082
PCB-1262	ND	0.50	ug/L	02/25/13	AW	8082
PCB-1268	ND	0.50	ug/L	02/25/13	AW	8082
QA/QC Surrogates						
% DCBP	111		%	02/25/13	AW	30 - 150 %
% TCMX	79		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	02/25/13	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,2,4-Trimethylbenzene	4.9	1.0	ug/L	02/25/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,2-Dichlorobenzene	1.1	1.0	ug/L	02/25/13	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	02/25/13	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,3,5-Trimethylbenzene	1.5	1.0	ug/L	02/25/13	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	02/25/13	H/T	SW8260
1,4-Dichlorobenzene	2.8	1.0	ug/L	02/25/13	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	02/25/13	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	02/25/13	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	02/25/13	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	02/25/13	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	02/25/13	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	02/25/13	H/T	SW8260
Acetone	ND	25	ug/L	02/25/13	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	02/25/13	H/T	SW8260
Benzene	ND	0.70	ug/L	02/25/13	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	02/25/13	H/T	SW8260
Bromoform	ND	1.0	ug/L	02/25/13	H/T	SW8260
Bromomethane	ND	1.0	ug/L	02/25/13	H/T	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-10

Phoenix I.D.: BD39016

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Carbon Disulfide	ND	5.0	ug/L	02/25/13	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	02/25/13	H/T	SW8260
Chlorobenzene	4.6	1.0	ug/L	02/25/13	H/T	SW8260
Chloroethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
Chloroform	ND	1.0	ug/L	02/25/13	H/T	SW8260
Chloromethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	02/25/13	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	02/25/13	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	02/25/13	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	02/25/13	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
m&p-Xylene	2.4	1.0	ug/L	02/25/13	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	02/25/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	02/25/13	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	02/25/13	H/T	SW8260
Naphthalene	5.8	1.0	ug/L	02/25/13	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
o-Xylene	1.6	1.0	ug/L	02/25/13	H/T	SW8260
p-Isopropyltoluene	2.1	1.0	ug/L	02/25/13	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
Styrene	ND	1.0	ug/L	02/25/13	H/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	02/25/13	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	02/25/13	H/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	02/25/13	H/T	SW8260
Toluene	ND	1.0	ug/L	02/25/13	H/T	SW8260
Total Xylenes	4	1.0	ug/L	02/25/13	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	02/25/13	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	02/25/13	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	02/25/13	H/T	SW8260
Trichloroethene	ND	1.0	ug/L	02/25/13	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	02/25/13	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	02/25/13	H/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	02/25/13	H/T	70 - 130 %
% Bromofluorobenzene	97		%	02/25/13	H/T	70 - 130 %
% Dibromofluoromethane	97		%	02/25/13	H/T	70 - 130 %
% Toluene-d8	100		%	02/25/13	H/T	70 - 130 %
Semivolatiles by SIM						
2-Methylnaphthalene	8.2	0.10	ug/L	02/25/13	DD	8270(SIM)
Acenaphthene	3.7	0.10	ug/L	02/25/13	DD	8270(SIM)
Acenaphthylene	0.22	0.10	ug/L	02/25/13	DD	8270(SIM)
Anthracene	2.8	0.10	ug/L	02/25/13	DD	8270(SIM)
Benz(a)anthracene	1.8	0.020	ug/L	02/25/13	DD	8270(SIM)
Benzo(a)pyrene	0.82	0.020	ug/L	02/25/13	DD	8270(SIM)

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-10

Phoenix I.D.: BD39016

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzo(b)fluoranthene	1.7	0.020	ug/L	02/25/13	DD	8270(SIM)
Benzo(ghi)perylene	0.58	0.10	ug/L	02/25/13	DD	8270(SIM)
Benzo(k)fluoranthene	0.93	0.020	ug/L	02/25/13	DD	8270(SIM)
Chrysene	1.8	0.020	ug/L	02/25/13	DD	8270(SIM)
Dibenz(a,h)anthracene	0.23	0.010	ug/L	02/25/13	DD	8270(SIM)
Fluoranthene	9.2	0.10	ug/L	02/25/13	DD	8270(SIM)
Fluorene	4.1	0.10	ug/L	02/25/13	DD	8270(SIM)
Indeno(1,2,3-cd)pyrene	0.56	0.020	ug/L	02/25/13	DD	8270(SIM)
Naphthalene	3.9	0.10	ug/L	02/25/13	DD	8270(SIM)
Phenanthrene	8	0.070	ug/L	02/25/13	DD	8270(SIM)
Pyrene	4.2	0.10	ug/L	02/25/13	DD	8270(SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	70		%	02/25/13	DD	30 - 130 %
% Nitrobenzene-d5	106		%	02/25/13	DD	30 - 130 %
% Terphenyl-d14	118		%	02/25/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/22/13	9:00
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39017

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-13

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	02/25/13	EK	SW6010
Arsenic	7.3	0.8	mg/Kg	02/25/13	EK	SW6010
Barium	64.1	0.39	mg/Kg	02/25/13	EK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	02/25/13	EK	SW6010
Chromium	16.4	0.39	mg/Kg	02/25/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/27/13	RS	SW-7471
Lead	44.8	0.39	mg/Kg	02/25/13	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	02/25/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Arsenic	0.074	0.004	mg/L	02/25/13	EK	SW6010
SPLP Barium	0.625	0.010	mg/L	02/25/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
SPLP Chromium	0.037	0.010	mg/L	02/25/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	0.137	0.010	mg/L	02/25/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/25/13	EK	SW6010
SPLP Metals Digestion	Completed			02/25/13	X/X	SW846-3005
Percent Solid	88		%	02/23/13	JL	E160.3
Soil Extraction for PCB	Completed			02/22/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/22/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/22/13	JJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/22/13	X	EPA 1312
Total Metals Digest	Completed			02/22/13	AG	SW846 - 3050
Field Extraction	Completed			02/22/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/24/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-13

Phoenix I.D.: BD39017

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/24/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	89		%	02/24/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	370	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	86		%	02/25/13	AW	30 - 150 %
% TCMX	93		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	02/24/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloropropene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromoethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloroethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloropropane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichloropropane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
2,2-Dichloropropane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
2-Chlorotoluene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
2-Hexanone	ND	26	ug/Kg	02/24/13	H/J	SW8260
2-Isopropyltoluene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
4-Chlorotoluene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	02/24/13	H/J	SW8260
Acetone	ND	100	ug/Kg	02/24/13	H/J	SW8260
Acrylonitrile	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Benzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Bromobenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Bromochloromethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Bromoform	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Bromomethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Carbon Disulfide	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Carbon tetrachloride	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Chlorobenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Chloroethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Chloroform	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Chloromethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	02/24/13	H/J	SW8260
Dibromomethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Ethylbenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Hexachlorobutadiene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Isopropylbenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
m&p-Xylene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	02/24/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	02/24/13	H/J	SW8260
Methylene chloride	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Naphthalene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
n-Butylbenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
n-Propylbenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
o-Xylene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
p-Isopropyltoluene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
sec-Butylbenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Styrene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
tert-Butylbenzene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Tetrachloroethene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	02/24/13	H/J	SW8260
Toluene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Total Xylenes	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	02/24/13	H/J	SW8260
Trichloroethene	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Trichlorofluoromethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
Vinyl chloride	ND	5.2	ug/Kg	02/24/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	97		%	02/24/13	H/J	70 - 130 %
% Bromofluorobenzene	88		%	02/24/13	H/J	70 - 130 %
% Dibromofluoromethane	97		%	02/24/13	H/J	70 - 130 %
% Toluene-d8	97		%	02/24/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/23/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-13

Phoenix I.D.: BD39017

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	02/23/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	82		%	02/23/13	DD	30 - 130 %
% Nitrobenzene-d5	75		%	02/23/13	DD	30 - 130 %
% Terphenyl-d14	80		%	02/23/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/22/13	9:20
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39018

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-15

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	02/25/13	EK	SW6010
Arsenic	3.1	0.8	mg/Kg	02/25/13	EK	SW6010
Barium	57.1	0.40	mg/Kg	02/25/13	EK	SW6010
Cadmium	< 0.40	0.40	mg/Kg	02/25/13	EK	SW6010
Chromium	19.6	0.40	mg/Kg	02/25/13	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	02/27/13	RS	SW-7471
Lead	11.9	0.40	mg/Kg	02/25/13	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	02/25/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/25/13	EK	SW6010
SPLP Barium	0.900	0.010	mg/L	02/25/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
SPLP Chromium	0.050	0.010	mg/L	02/25/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	0.023	0.010	mg/L	02/25/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/25/13	EK	SW6010
SPLP Metals Digestion	Completed			02/25/13	X/X	SW846-3005
Percent Solid	83		%	02/23/13	JL	E160.3
Soil Extraction for PCB	Completed			02/22/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/22/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/22/13	JJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/22/13	X	EPA 1312
Total Metals Digest	Completed			02/22/13	AG	SW846 - 3050
Field Extraction	Completed			02/22/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	12	mg/Kg	02/24/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-15

Phoenix I.D.: BD39018

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/24/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	94		%	02/24/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	400	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	400	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	400	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	400	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	400	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	400	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	400	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	400	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	400	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	42		%	02/25/13	AW	30 - 150 %
% TCMX	49		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	02/24/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
2-Hexanone	ND	26	ug/Kg	02/24/13	H/J	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	02/24/13	H/J	SW8260
Acetone	ND	100	ug/Kg	02/24/13	H/J	SW8260
Acrylonitrile	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Benzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Bromobenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Bromochloromethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Bromoform	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Bromomethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Chlorobenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Chloroethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Chloroform	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Chloromethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	02/24/13	H/J	SW8260
Dibromomethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Ethylbenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
m&p-Xylene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	02/24/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	02/24/13	H/J	SW8260
Methylene chloride	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Naphthalene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
o-Xylene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Styrene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	02/24/13	H/J	SW8260
Toluene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Total Xylenes	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	02/24/13	H/J	SW8260
Trichloroethene	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
Vinyl chloride	ND	5.1	ug/Kg	02/24/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	02/24/13	H/J	70 - 130 %
% Bromofluorobenzene	92		%	02/24/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	02/24/13	H/J	70 - 130 %
% Toluene-d8	95		%	02/24/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	02/23/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-15

Phoenix I.D.: BD39018

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Benz(a)anthracene	370	280	ug/Kg	02/23/13	DD	SW 8270
Benzo(a)pyrene	350	280	ug/Kg	02/23/13	DD	SW 8270
Benzo(b)fluoranthene	490	280	ug/Kg	02/23/13	DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Chrysene	370	280	ug/Kg	02/23/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Fluoranthene	410	280	ug/Kg	02/23/13	DD	SW 8270
Fluorene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Naphthalene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Phenanthrene	ND	280	ug/Kg	02/23/13	DD	SW 8270
Pyrene	380	280	ug/Kg	02/23/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	89		%	02/23/13	DD	30 - 130 %
% Nitrobenzene-d5	77		%	02/23/13	DD	30 - 130 %
% Terphenyl-d14	84		%	02/23/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/22/13	9:40
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39019

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	02/25/13	EK	SW6010
Arsenic	1.2	0.8	mg/Kg	02/25/13	EK	SW6010
Barium	32.3	0.38	mg/Kg	02/25/13	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	02/25/13	EK	SW6010
Chromium	8.57	0.38	mg/Kg	02/25/13	EK	SW6010
Mercury	< 0.06	0.06	mg/Kg	02/27/13	RS	SW-7471
Lead	4.12	0.38	mg/Kg	02/25/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/25/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/25/13	EK	SW6010
SPLP Barium	0.035	0.010	mg/L	02/25/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/25/13	EK	SW6010
SPLP Metals Digestion	Completed			02/25/13	X/X	SW846-3005
Percent Solid	91		%	02/23/13	JL	E160.3
Soil Extraction for PCB	Completed			02/22/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/22/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/22/13	JJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/22/13	X	EPA 1312
Total Metals Digest	Completed			02/22/13	AG	SW846 - 3050
Field Extraction	Completed			02/22/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/24/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-2

Phoenix I.D.: BD39019

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/24/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	74		%	02/24/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	84		%	02/25/13	AW	30 - 150 %
% TCMX	94		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	02/24/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloropropene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromoethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
2-Chlorotoluene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
2-Hexanone	ND	26	ug/Kg	02/24/13	H/J	SW8260
2-Isopropyltoluene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
4-Chlorotoluene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	02/24/13	H/J	SW8260
Acetone	ND	110	ug/Kg	02/24/13	H/J	SW8260
Acrylonitrile	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Benzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Bromobenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Bromochloromethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Bromoform	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Bromomethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Chlorobenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Chloroethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Chloroform	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Chloromethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	02/24/13	H/J	SW8260
Dibromomethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Ethylbenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Hexachlorobutadiene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Isopropylbenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
m&p-Xylene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	02/24/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	02/24/13	H/J	SW8260
Methylene chloride	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Naphthalene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
n-Butylbenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
n-Propylbenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
o-Xylene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
p-Isopropyltoluene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
sec-Butylbenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Styrene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
tert-Butylbenzene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	02/24/13	H/J	SW8260
Toluene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Total Xylenes	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	02/24/13	H/J	SW8260
Trichloroethene	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
Vinyl chloride	ND	5.3	ug/Kg	02/24/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	02/24/13	H/J	70 - 130 %
% Bromofluorobenzene	95		%	02/24/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	02/24/13	H/J	70 - 130 %
% Toluene-d8	96		%	02/24/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	02/23/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-2

Phoenix I.D.: BD39019

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Chrysene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Naphthalene	1400	250	ug/Kg	02/23/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Pyrene	ND	250	ug/Kg	02/23/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	85		%	02/23/13	DD	30 - 130 %
% Nitrobenzene-d5	76		%	02/23/13	DD	30 - 130 %
% Terphenyl-d14	83		%	02/23/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/22/13	10:30
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39020

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-36

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	02/25/13	EK	SW6010
Arsenic	2.0	0.8	mg/Kg	02/25/13	EK	SW6010
Barium	59.0	0.38	mg/Kg	02/25/13	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	02/25/13	EK	SW6010
Chromium	10.5	0.38	mg/Kg	02/25/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/27/13	RS	SW-7471
Lead	55.3	0.38	mg/Kg	02/25/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/25/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/25/13	EK	SW6010
SPLP Barium	0.103	0.010	mg/L	02/25/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/25/13	EK	SW6010
SPLP Metals Digestion	Completed			02/25/13	X/X	SW846-3005
Percent Solid	89		%	02/23/13	JL	E160.3
Soil Extraction for PCB	Completed			02/22/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/22/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/22/13	JJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/22/13	X	EPA 1312
Total Metals Digest	Completed			02/22/13	AG	SW846 - 3050
Field Extraction	Completed			02/22/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	18	11	mg/Kg	02/24/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-36

Phoenix I.D.: BD39020

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	02/24/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	70		%	02/24/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	370	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	90		%	02/25/13	AW	30 - 150 %
% TCMX	87		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	02/24/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
2-Hexanone	ND	27	ug/Kg	02/24/13	H/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	02/24/13	H/J	SW8260
Acetone	ND	110	ug/Kg	02/24/13	H/J	SW8260
Acrylonitrile	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Benzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Bromoform	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Bromomethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Chloroethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Chloroform	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Chloromethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	02/24/13	H/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	02/24/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	02/24/13	H/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Naphthalene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
o-Xylene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Styrene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	02/24/13	H/J	SW8260
Toluene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	02/24/13	H/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	02/24/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	95		%	02/24/13	H/J	70 - 130 %
% Bromofluorobenzene	96		%	02/24/13	H/J	70 - 130 %
% Dibromofluoromethane	95		%	02/24/13	H/J	70 - 130 %
% Toluene-d8	98		%	02/24/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/23/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-36

Phoenix I.D.: BD39020

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benz(a)anthracene	660	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(a)pyrene	690	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(b)fluoranthene	960	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(ghi)perylene	350	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(k)fluoranthene	390	260	ug/Kg	02/23/13	DD	SW 8270
Chrysene	740	260	ug/Kg	02/23/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Fluoranthene	1100	260	ug/Kg	02/23/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	300	260	ug/Kg	02/23/13	DD	SW 8270
Naphthalene	830	260	ug/Kg	02/23/13	DD	SW 8270
Phenanthrene	730	260	ug/Kg	02/23/13	DD	SW 8270
Pyrene	900	260	ug/Kg	02/23/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	86		%	02/23/13	DD	30 - 130 %
% Nitrobenzene-d5	74		%	02/23/13	DD	30 - 130 %
% Terphenyl-d14	75		%	02/23/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/22/13	10:45
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39021

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-9

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	02/25/13	EK	SW6010
Arsenic	3.1	0.8	mg/Kg	02/25/13	EK	SW6010
Barium	42.7	0.38	mg/Kg	02/25/13	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	02/25/13	EK	SW6010
Chromium	13.2	0.38	mg/Kg	02/25/13	EK	SW6010
Mercury	< 0.06	0.06	mg/Kg	02/26/13	RS	SW-7471
Lead	9.06	0.38	mg/Kg	02/25/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/25/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/25/13	EK	SW6010
SPLP Barium	0.137	0.010	mg/L	02/25/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	0.012	0.010	mg/L	02/25/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/25/13	EK	SW6010
SPLP Metals Digestion	Completed			02/25/13	X/X	SW846-3005
Percent Solid	92		%	02/23/13	JL	E160.3
Soil Extraction for PCB	Completed			02/22/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/22/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/22/13	JJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/22/13	X	EPA 1312
Total Metals Digest	Completed			02/22/13	AG	SW846 - 3050
Field Extraction	Completed			02/22/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/24/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-9

Phoenix I.D.: BD39021

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/24/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	72		%	02/24/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	84		%	02/25/13	AW	30 - 150 %
% TCMX	87		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,1,1-Trichloroethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	02/24/13	H/J	SW8260
1,1,2-Trichloroethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloropropene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichloropropane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromoethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichlorobenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloroethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloropropane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichlorobenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichloropropane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
1,4-Dichlorobenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
2,2-Dichloropropane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
2-Chlorotoluene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
2-Hexanone	ND	23	ug/Kg	02/24/13	H/J	SW8260
2-Isopropyltoluene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
4-Chlorotoluene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	02/24/13	H/J	SW8260
Acetone	ND	90	ug/Kg	02/24/13	H/J	SW8260
Acrylonitrile	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Benzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Bromobenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Bromochloromethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Bromoform	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Bromomethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Carbon Disulfide	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Carbon tetrachloride	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Chlorobenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Chloroethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Chloroform	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Chloromethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	02/24/13	H/J	SW8260
Dibromomethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Dichlorodifluoromethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Ethylbenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Hexachlorobutadiene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Isopropylbenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
m&p-Xylene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	02/24/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.0	ug/Kg	02/24/13	H/J	SW8260
Methylene chloride	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Naphthalene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
n-Butylbenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
n-Propylbenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
o-Xylene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
p-Isopropyltoluene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
sec-Butylbenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Styrene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
tert-Butylbenzene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Tetrachloroethene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	9.0	ug/Kg	02/24/13	H/J	SW8260
Toluene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Total Xylenes	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.0	ug/Kg	02/24/13	H/J	SW8260
Trichloroethene	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Trichlorofluoromethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Trichlorotrifluoroethane	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
Vinyl chloride	ND	4.5	ug/Kg	02/24/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	02/24/13	H/J	70 - 130 %
% Bromofluorobenzene	96		%	02/24/13	H/J	70 - 130 %
% Dibromofluoromethane	99		%	02/24/13	H/J	70 - 130 %
% Toluene-d8	97		%	02/24/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	02/23/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-9

Phoenix I.D.: BD39021

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Benz(a)anthracene	290	250	ug/Kg	02/23/13	DD	SW 8270
Benzo(a)pyrene	340	250	ug/Kg	02/23/13	DD	SW 8270
Benzo(b)fluoranthene	460	250	ug/Kg	02/23/13	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Chrysene	340	250	ug/Kg	02/23/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Fluoranthene	450	250	ug/Kg	02/23/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Naphthalene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	02/23/13	DD	SW 8270
Pyrene	430	250	ug/Kg	02/23/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	85		%	02/23/13	DD	30 - 130 %
% Nitrobenzene-d5	76		%	02/23/13	DD	30 - 130 %
% Terphenyl-d14	78		%	02/23/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/22/13	11:10
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39022

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-17

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	02/25/13	EK	SW6010
Arsenic	2.5	0.7	mg/Kg	02/25/13	EK	SW6010
Barium	74.6	0.37	mg/Kg	02/25/13	EK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	02/25/13	EK	SW6010
Chromium	16.6	0.37	mg/Kg	02/25/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/26/13	RS	SW-7471
Lead	9.22	0.37	mg/Kg	02/25/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/25/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/25/13	EK	SW6010
SPLP Barium	0.114	0.010	mg/L	02/25/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/25/13	EK	SW6010
SPLP Metals Digestion	Completed			02/25/13	X/X	SW846-3005
Percent Solid	89		%	02/23/13	JL	E160.3
Soil Extraction for PCB	Completed			02/22/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/22/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/22/13	JJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/22/13	X	EPA 1312
Total Metals Digest	Completed			02/22/13	AG	SW846 - 3050
Field Extraction	Completed			02/22/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/24/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-17

Phoenix I.D.: BD39022

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/24/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	70		%	02/24/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	370	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	85		%	02/25/13	AW	30 - 150 %
% TCMX	92		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	02/24/13	H/J	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromoethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
2-Hexanone	ND	24	ug/Kg	02/24/13	H/J	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	02/24/13	H/J	SW8260
Acetone	ND	97	ug/Kg	02/24/13	H/J	SW8260
Acrylonitrile	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Benzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Bromobenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Bromochloromethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-17

Phoenix I.D.: BD39022

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Bromoform	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Bromomethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Chlorobenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Chloroethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Chloroform	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Chloromethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	02/24/13	H/J	SW8260
Dibromomethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Ethylbenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
m&p-Xylene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	02/24/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.7	ug/Kg	02/24/13	H/J	SW8260
Methylene chloride	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Naphthalene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
o-Xylene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Styrene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	9.7	ug/Kg	02/24/13	H/J	SW8260
Toluene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Total Xylenes	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.7	ug/Kg	02/24/13	H/J	SW8260
Trichloroethene	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Trichlorotrifluoroethane	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
Vinyl chloride	ND	4.8	ug/Kg	02/24/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	02/24/13	H/J	70 - 130 %
% Bromofluorobenzene	96		%	02/24/13	H/J	70 - 130 %
% Dibromofluoromethane	99		%	02/24/13	H/J	70 - 130 %
% Toluene-d8	97		%	02/24/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/23/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-17

Phoenix I.D.: BD39022

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	02/23/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	02/23/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	86		%	02/23/13	DD	30 - 130 %
% Nitrobenzene-d5	77		%	02/23/13	DD	30 - 130 %
% Terphenyl-d14	86		%	02/23/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/22/13	12:00
Location Code:	MAGUIRE	Received by:	SW	02/22/13	13:58
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39015
Phoenix ID: BD39023

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-16

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	02/25/13	EK	SW6010
Arsenic	1.1	0.7	mg/Kg	02/25/13	EK	SW6010
Barium	48.4	0.35	mg/Kg	02/25/13	EK	SW6010
Cadmium	< 0.35	0.35	mg/Kg	02/25/13	EK	SW6010
Chromium	12.5	0.35	mg/Kg	02/25/13	EK	SW6010
Mercury	< 0.08	0.08	mg/Kg	02/26/13	RS	SW-7471
Lead	5.89	0.35	mg/Kg	02/25/13	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	02/25/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Arsenic	0.006	0.004	mg/L	02/25/13	EK	SW6010
SPLP Barium	0.064	0.010	mg/L	02/25/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/25/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/25/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/25/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/25/13	EK	SW6010
SPLP Metals Digestion	Completed			02/25/13	X/X	SW846-3005
Percent Solid	89		%	02/23/13	JL	E160.3
Soil Extraction for PCB	Completed			02/22/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/22/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/22/13	JJ/V	3545
Mercury Digestion	Completed			02/26/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/25/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/22/13	X	EPA 1312
Total Metals Digest	Completed			02/22/13	AG	SW846 - 3050
Field Extraction	Completed			02/22/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/24/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-16

Phoenix I.D.: BD39023

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/24/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	65		%	02/24/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1221	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1232	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1242	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1248	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1254	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1260	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1262	ND	370	ug/Kg	02/25/13	AW	SW 8082
PCB-1268	ND	370	ug/Kg	02/25/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	82		%	02/25/13	AW	30 - 150 %
% TCMX	88		%	02/25/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,1,1-Trichloroethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.1	ug/Kg	02/24/13	H/J	SW8260
1,1,2-Trichloroethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloroethene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,1-Dichloropropene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2,3-Trichloropropane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dibromoethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichlorobenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloroethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,2-Dichloropropane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichlorobenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,3-Dichloropropane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
1,4-Dichlorobenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
2,2-Dichloropropane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
2-Chlorotoluene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
2-Hexanone	ND	17	ug/Kg	02/24/13	H/J	SW8260
2-Isopropyltoluene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
4-Chlorotoluene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
4-Methyl-2-pentanone	ND	17	ug/Kg	02/24/13	H/J	SW8260
Acetone	ND	70	ug/Kg	02/24/13	H/J	SW8260
Acrylonitrile	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Benzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Bromobenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Bromochloromethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Bromoform	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Bromomethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Carbon Disulfide	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Carbon tetrachloride	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Chlorobenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Chloroethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Chloroform	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Chloromethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Dibromochloromethane	ND	2.1	ug/Kg	02/24/13	H/J	SW8260
Dibromomethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Dichlorodifluoromethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Ethylbenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Hexachlorobutadiene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Isopropylbenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
m&p-Xylene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Methyl Ethyl Ketone	ND	21	ug/Kg	02/24/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	7.0	ug/Kg	02/24/13	H/J	SW8260
Methylene chloride	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Naphthalene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
n-Butylbenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
n-Propylbenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
o-Xylene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
p-Isopropyltoluene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
sec-Butylbenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Styrene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
tert-Butylbenzene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Tetrachloroethene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	7.0	ug/Kg	02/24/13	H/J	SW8260
Toluene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Total Xylenes	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	7.0	ug/Kg	02/24/13	H/J	SW8260
Trichloroethene	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Trichlorofluoromethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Trichlorotrifluoroethane	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
Vinyl chloride	ND	3.5	ug/Kg	02/24/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	02/24/13	H/J	70 - 130 %
% Bromofluorobenzene	97		%	02/24/13	H/J	70 - 130 %
% Dibromofluoromethane	97		%	02/24/13	H/J	70 - 130 %
% Toluene-d8	96		%	02/24/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Acenaphthene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Acenaphthylene	ND	510	ug/Kg	02/24/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-16

Phoenix I.D.: BD39023

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Benz(a)anthracene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Benzo(a)pyrene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Benzo(b)fluoranthene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Benzo(ghi)perylene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Benzo(k)fluoranthene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Chrysene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Fluoranthene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Fluorene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Naphthalene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Phenanthrene	ND	510	ug/Kg	02/24/13	DD	SW 8270
Pyrene	ND	510	ug/Kg	02/24/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	82		%	02/24/13	DD	30 - 130 %
% Nitrobenzene-d5	73		%	02/24/13	DD	30 - 130 %
% Terphenyl-d14	84		%	02/24/13	DD	30 - 130 %

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

Comments:

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

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

QA/QC Report

March 05, 2013

QA/QC Data

SDG I.D.: GBD39015

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 221714, QC Sample No: BD37829 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022)												
ICP Metals - SPLP Extraction												
Arsenic	BRL	0.005	0.004	NC	100	96.6	3.5	103	105	1.9	75 - 125	20
Barium	BRL	0.081	0.079	2.50	103	98.5	4.5	105	107	1.9	75 - 125	20
Cadmium	BRL	<0.005	<0.005	NC	105	102	2.9	107	109	1.9	75 - 125	20
Chromium	BRL	<0.010	<0.010	NC	102	97.5	4.5	103	105	1.9	75 - 125	20
Lead	BRL	0.018	0.019	NC	101	97.8	3.2	104	105	1.0	75 - 125	20
Selenium	BRL	<0.020	<0.020	NC	101	98.2	2.8	104	106	1.9	75 - 125	20
Silver	BRL	<0.010	<0.010	NC	98.4	94.8	3.7	101	102	1.0	75 - 125	20
QA/QC Batch 221949, QC Sample No: BD38388 (BD39015, BD39017, BD39018, BD39019, BD39020)												
Mercury - Soil	BRL	<0.07	<0.06	NC	95.5	101	5.6	95.6	105	9.4	70 - 130	30
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 221823, QC Sample No: BD38475 (BD39016)												
ICP Metals - Aqueous												
Arsenic	BRL	<0.004	<0.004	NC	103	98.7	4.3	104	103	1.0	75 - 125	20
Barium	BRL	0.477	0.481	0.80	101	100	1.0	96.5	95.2	1.4	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	103	101	2.0	94.6	93.5	1.2	75 - 125	20
Chromium	BRL	0.003	0.003	NC	102	98.9	3.1	96.8	95.8	1.0	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	103	100	3.0	95.2	94.6	0.6	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	100	98.5	1.5	101	100	1.0	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	99.6	97.0	2.6	102	101	1.0	75 - 125	20
QA/QC Batch 221951, QC Sample No: BD38665 (BD39015, BD39016, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)												
Mercury - Water	BRL	<0.00015	<0.0002	NC	106	105	0.9	102	105	2.9	70 - 130	20
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 221896, QC Sample No: BD38819 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)												
ICP Metals - Soil												
Arsenic	BRL	3.0	2.81	NC	96.0	98.6	2.7	96.3	95.9	0.4	75 - 125	30
Barium	BRL	41.5	35.3	16.1	99.1	102	2.9	89.1	88.9	0.2	75 - 125	30
Cadmium	BRL	<0.48	<0.48	NC	99.2	102	2.8	100	99.0	1.0	75 - 125	30
Chromium	BRL	14.8	14.5	2.00	103	107	3.8	105	103	1.9	75 - 125	30
Lead	BRL	4.57	4.11	10.6	99.0	105	5.9	100	99.1	0.9	75 - 125	30
Selenium	BRL	<1.9	<1.9	NC	102	104	1.9	83.6	83.7	0.1	75 - 125	30
Silver	BRL	<0.48	<0.48	NC	96.8	96.4	0.4	98.0	97.5	0.5	75 - 125	30
QA/QC Batch 221915, QC Sample No: BD39016 (BD39016)												
ICP Metals - Dissolved												
Arsenic	BRL	<0.004	<0.004	NC	94.8	97.0	2.3	99.1	98.5	0.6	75 - 125	20
Barium	BRL	0.106	0.110	3.70	96.5	99.3	2.9	99.3	96.7	2.7	75 - 125	20

QA/QC Data

SDG I.D.: GBD39015

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Cadmium	BRL	<0.001	<0.001	NC	95.1	97.5	2.5	95.8	93.6	2.3	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	93.7	97.1	3.6	96.5	94.5	2.1	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	94.8	98.4	3.7	96.8	94.9	2.0	75 - 125	20
Selenium	BRL	<0.011	<0.011	NC	89.8	92.3	2.7	95.0	94.0	1.1	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	89.4	92.6	3.5	81.3	79.9	1.7	75 - 125	20
QA/QC Batch 221964, QC Sample No: BD39023 (BD39023)												
ICP Metals - SPLP Extraction												
Arsenic	BRL	0.006	0.005	NC	99.1	98.2	0.9	102	101	1.0	75 - 125	20
Barium	BRL	0.064	0.064	0	100	102	2.0	100	98.8	1.2	75 - 125	20
Cadmium	BRL	<0.005	<0.005	NC	102	101	1.0	102	100	2.0	75 - 125	20
Chromium	BRL	<0.010	<0.010	NC	98.6	97.6	1.0	100	99.3	0.7	75 - 125	20
Lead	BRL	<0.010	<0.010	NC	100	99.5	0.5	101	100	1.0	75 - 125	20
Selenium	BRL	<0.020	<0.020	NC	100	99.9	0.1	103	102	1.0	75 - 125	20
Silver	BRL	<0.010	<0.010	NC	96.6	96.7	0.1	99.4	98.2	1.2	75 - 125	20
QA/QC Batch 222050, QC Sample No: BD39545 (BD39021, BD39022, BD39023)												
Mercury - Soil	BRL	<0.08	<0.08	NC	103	105	1.9	104	108	3.8	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

PHOENIX

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

QA/QC Report

March 05, 2013

QA/QC Data

SDG I.D.: GBD39015

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 221811, QC Sample No: BD38135 (BD39016)									
Polychlorinated Biphenyls - Ground Water									
PCB-1016	ND	84	89	5.8	88	79	10.8	40 - 140	20
PCB-1221	ND							40 - 140	20
PCB-1232	ND							40 - 140	20
PCB-1242	ND							40 - 140	20
PCB-1248	ND							40 - 140	20
PCB-1254	ND							40 - 140	20
PCB-1260	ND	87	91	4.5	90	85	5.7	40 - 140	20
PCB-1262	ND							40 - 140	20
PCB-1268	ND							40 - 140	20
% DCBP (Surrogate Rec)	40	64	62	3.2	79	74	6.5	30 - 150	20
% TCMX (Surrogate Rec)	66	75	82	8.9	83	79	4.9	30 - 150	20
QA/QC Batch 222014, QC Sample No: BD38475 (BD39016)									
TPH by GC (Extractable Products) - Ground Water									
Ext. Petroleum HC	ND	91	86	5.6	91	93	2.2	60 - 120	20
% n-Pentacosane	90	102	99	3.0	102	107	4.8	50 - 150	20
QA/QC Batch 221785, QC Sample No: BD38490 (BD39016)									
Semivolatiles - Ground Water									
2-Methylnaphthalene	ND	80	80	0.0				30 - 130	20
Acenaphthene	ND	76	76	0.0				30 - 130	20
Acenaphthylene	ND	66	65	1.5				30 - 130	20
Anthracene	ND	79	78	1.3				30 - 130	20
Benz(a)anthracene	ND	84	82	2.4				30 - 130	20
Benzo(a)pyrene	ND	74	73	1.4				30 - 130	20
Benzo(b)fluoranthene	ND	87	89	2.3				30 - 130	20
Benzo(ghi)perylene	ND	92	86	6.7				30 - 130	20
Benzo(k)fluoranthene	ND	88	83	5.8				30 - 130	20
Chrysene	ND	81	80	1.2				30 - 130	20
Dibenz(a,h)anthracene	ND	92	88	4.4				30 - 130	20
Fluoranthene	ND	78	77	1.3				30 - 130	20
Fluorene	ND	80	80	0.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	91	87	4.5				30 - 130	20
Naphthalene	ND	82	82	0.0				30 - 130	20
Phenanthrene	ND	83	82	1.2				30 - 130	20
Pyrene	ND	76	76	0.0				30 - 130	20
% 2-Fluorobiphenyl	81	79	78	1.3				30 - 130	20
% Nitrobenzene-d5	111	80	78	2.5				30 - 130	20
% Terphenyl-d14	108	83	81	2.4				30 - 130	20

Comment:

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

QA/QC Data

SDG I.D.: GBD39015

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 221790, QC Sample No: BD38572 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)									
TPH by GC (Extractable Products) - Soil									
Ext. Petroleum HC	ND	72	66	8.7				60 - 120	30
% n-Pentacosane	73	75	68	9.8				50 - 150	30
QA/QC Batch 221793, QC Sample No: BD38705 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)									
Polychlorinated Biphenyls - Soil									
PCB-1016	ND	83	69	18.4	85	84	1.2	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	82	69	17.2	86	84	2.4	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	83	86	72	17.7	93	89	4.4	30 - 150	30
% TCMX (Surrogate Rec)	84	93	76	20.1	95	91	4.3	30 - 150	30
QA/QC Batch 221884, QC Sample No: BD39021 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)									
Polynuclear Aromatic HC - Soil									
2-Methylnaphthalene	ND	77	78	1.3	77	70	9.5	30 - 130	30
Acenaphthene	ND	74	75	1.3	77	70	9.5	30 - 130	30
Acenaphthylene	ND	82	83	1.2	81	77	5.1	30 - 130	30
Anthracene	ND	80	79	1.3	82	76	7.6	30 - 130	30
Benz(a)anthracene	ND	83	83	0.0	83	88	5.8	30 - 130	30
Benzo(a)pyrene	ND	76	75	1.3	79	81	2.5	30 - 130	30
Benzo(b)fluoranthene	ND	84	82	2.4	84	80	4.9	30 - 130	30
Benzo(ghi)perylene	ND	87	82	5.9	69	75	8.3	30 - 130	30
Benzo(k)fluoranthene	ND	82	81	1.2	88	90	2.2	30 - 130	30
Chrysene	ND	85	84	1.2	82	83	1.2	30 - 130	30
Dibenz(a,h)anthracene	ND	81	78	3.8	69	69	0.0	30 - 130	30
Fluoranthene	ND	81	80	1.2	79	97	20.5	30 - 130	30
Fluorene	ND	76	78	2.6	78	71	9.4	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	85	82	3.6	70	75	6.9	30 - 130	30
Naphthalene	ND	72	73	1.4	78	70	10.8	30 - 130	30
Phenanthrene	ND	81	80	1.2	83	77	7.5	30 - 130	30
Pyrene	ND	80	78	2.5	85	104	20.1	30 - 130	30
% 2-Fluorobiphenyl	74	78	80	2.5	81	71	13.2	30 - 130	30
% Nitrobenzene-d5	67	65	66	1.5	73	65	11.6	30 - 130	30
% Terphenyl-d14	74	82	83	1.2	99	92	7.3	30 - 130	30
QA/QC Batch 221997, QC Sample No: BD39022 (BD39015 (50X) , BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)									
Volatiles - Soil									
1,1,1,2-Tetrachloroethane	ND	102	105	2.9	93	101	8.2	70 - 130	30
1,1,1-Trichloroethane	ND	100	100	0.0	97	104	7.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	85	87	2.3	96	103	7.0	70 - 130	30
1,1,2-Trichloroethane	ND	103	104	1.0	92	98	6.3	70 - 130	30
1,1-Dichloroethane	ND	101	102	1.0	96	103	7.0	70 - 130	30
1,1-Dichloroethene	ND	99	102	3.0	99	104	4.9	70 - 130	30

QA/QC Data

SDG I.D.: GBD39015

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloropropene	ND	97	97	0.0	96	99	3.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	87	91	4.5	53	67	23.3	70 - 130	30	m
1,2,3-Trichloropropane	ND	104	96	8.0	101	93	8.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	78	83	6.2	59	70	17.1	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	93	97	4.2	87	91	4.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	106	108	1.9	93	98	5.2	70 - 130	30	
1,2-Dibromoethane	ND	102	102	0.0	92	100	8.3	70 - 130	30	
1,2-Dichlorobenzene	ND	92	97	5.3	81	86	6.0	70 - 130	30	
1,2-Dichloroethane	ND	97	100	3.0	93	97	4.2	70 - 130	30	
1,2-Dichloropropane	ND	99	103	4.0	94	99	5.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	93	96	3.2	90	93	3.3	70 - 130	30	
1,3-Dichlorobenzene	ND	90	94	4.3	83	86	3.6	70 - 130	30	
1,3-Dichloropropane	ND	102	105	2.9	92	102	10.3	70 - 130	30	
1,4-Dichlorobenzene	ND	87	91	4.5	82	85	3.6	70 - 130	30	
2,2-Dichloropropane	ND	101	95	6.1	100	122	19.8	70 - 130	30	
2-Chlorotoluene	ND	92	96	4.3	90	93	3.3	70 - 130	30	
2-Hexanone	ND	80	81	1.2	52	56	7.4	70 - 130	30	m
2-Isopropyltoluene	ND	94	98	4.2	86	91	5.6	70 - 130	30	
4-Chlorotoluene	ND	88	92	4.4	87	91	4.5	70 - 130	30	
4-Methyl-2-pentanone	ND	98	100	2.0	87	91	4.5	70 - 130	30	
Acetone	ND	77	75	2.6	66	84	24.0	70 - 130	30	m
Acrylonitrile	ND	100	100	0.0	87	97	10.9	70 - 130	30	
Benzene	ND	99	100	1.0	95	100	5.1	70 - 130	30	
Bromobenzene	ND	95	100	5.1	91	95	4.3	70 - 130	30	
Bromochloromethane	ND	101	104	2.9	92	99	7.3	70 - 130	30	
Bromodichloromethane	ND	101	103	2.0	95	98	3.1	70 - 130	30	
Bromoform	ND	112	113	0.9	85	99	15.2	70 - 130	30	
Bromomethane	ND	136	127	6.8	89	121	30.5	70 - 130	30	l
Carbon Disulfide	ND	97	97	0.0	94	101	7.2	70 - 130	30	
Carbon tetrachloride	ND	103	102	1.0	96	106	9.9	70 - 130	30	
Chlorobenzene	ND	97	100	3.0	89	97	8.6	70 - 130	30	
Chloroethane	ND	107	107	0.0	98	102	4.0	70 - 130	30	
Chloroform	ND	99	101	2.0	94	100	6.2	70 - 130	30	
Chloromethane	ND	110	114	3.6	93	103	10.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	100	104	3.9	94	101	7.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	98	101	3.0	92	99	7.3	70 - 130	30	
Dibromochloromethane	ND	107	110	2.8	92	103	11.3	70 - 130	30	
Dibromomethane	ND	103	104	1.0	94	99	5.2	70 - 130	30	
Dichlorodifluoromethane	ND	129	128	0.8	93	100	7.3	70 - 130	30	
Ethylbenzene	ND	95	98	3.1	91	98	7.4	70 - 130	30	
Hexachlorobutadiene	ND	84	87	3.5	52	64	20.7	70 - 130	30	m
Isopropylbenzene	ND	98	100	2.0	96	98	2.1	70 - 130	30	
m&p-Xylene	ND	95	96	1.0	89	96	7.6	70 - 130	30	
Methyl ethyl ketone	ND	74	70	5.6	46	51	10.3	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	97	98	1.0	96	101	5.1	70 - 130	30	
Methylene chloride	ND	95	99	4.1	106	109	2.8	70 - 130	30	
Naphthalene	ND	99	102	3.0	68	80	16.2	70 - 130	30	m
n-Butylbenzene	ND	87	91	4.5	78	84	7.4	70 - 130	30	
n-Propylbenzene	ND	94	98	4.2	93	94	1.1	70 - 130	30	
o-Xylene	ND	102	103	1.0	89	97	8.6	70 - 130	30	
p-Isopropyltoluene	ND	93	96	3.2	84	89	5.8	70 - 130	30	
sec-Butylbenzene	ND	93	96	3.2	86	92	6.7	70 - 130	30	
Styrene	ND	95	99	4.1	85	92	7.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBD39015

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
tert-Butylbenzene	ND	98	101	3.0	90	95	5.4	70 - 130	30	
Tetrachloroethene	ND	96	98	2.1	91	98	7.4	70 - 130	30	
Tetrahydrofuran (THF)	ND	100	101	1.0	87	96	9.8	70 - 130	30	
Toluene	ND	98	100	2.0	95	99	4.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	99	104	4.9	95	101	6.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	100	102	2.0	93	103	10.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	97	105	7.9	85	108	23.8	70 - 130	30	
Trichloroethene	ND	111	112	0.9	93	97	4.2	70 - 130	30	
Trichlorofluoromethane	ND	108	109	0.9	97	104	7.0	70 - 130	30	
Trichlorotrifluoroethane	ND	99	99	0.0	95	101	6.1	70 - 130	30	
Vinyl chloride	ND	110	112	1.8	95	102	7.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	101	103	2.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	96	100	99	1.0	98	100	2.0	70 - 130	30	
% Dibromofluoromethane	98	97	100	3.0	102	104	1.9	70 - 130	30	
% Toluene-d8	97	101	100	1.0	102	100	2.0	70 - 130	30	

Comment:

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

QA/QC Batch 222074, QC Sample No: BD39473 (BD39016)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	109	114	4.5	113	108	4.5	70 - 130	30	
1,1,1-Trichloroethane	ND	98	107	8.8	110	106	3.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	92	100	8.3	98	98	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	104	108	3.8	105	102	2.9	70 - 130	30	
1,1-Dichloroethane	ND	97	108	10.7	109	107	1.9	70 - 130	30	
1,1-Dichloroethene	ND	97	104	7.0	106	103	2.9	70 - 130	30	
1,1-Dichloropropene	ND	103	110	6.6	107	105	1.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	107	113	5.5	109	108	0.9	70 - 130	30	
1,2,3-Trichloropropane	ND	93	101	8.2	100	99	1.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	105	112	6.5	110	107	2.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	108	116	7.1	109	107	1.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	101	111	9.4	104	105	1.0	70 - 130	30	
1,2-Dibromoethane	ND	103	107	3.8	106	104	1.9	70 - 130	30	
1,2-Dichlorobenzene	ND	103	107	3.8	104	102	1.9	70 - 130	30	
1,2-Dichloroethane	ND	100	108	7.7	111	110	0.9	70 - 130	30	
1,2-Dichloropropane	ND	99	105	5.9	100	100	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	108	115	6.3	110	107	2.8	70 - 130	30	
1,3-Dichlorobenzene	ND	104	110	5.6	105	102	2.9	70 - 130	30	
1,3-Dichloropropane	ND	99	105	5.9	104	103	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	103	108	4.7	104	101	2.9	70 - 130	30	
2,2-Dichloropropane	ND	56	62	10.2	73	69	5.6	70 - 130	30	l,m
2-Chlorotoluene	ND	104	113	8.3	106	104	1.9	70 - 130	30	
2-Hexanone	ND	100	103	3.0	91	93	2.2	70 - 130	30	
2-Isopropyltoluene	ND	104	111	6.5	110	106	3.7	70 - 130	30	
4-Chlorotoluene	ND	102	109	6.6	107	102	4.8	70 - 130	30	
4-Methyl-2-pentanone	ND	94	96	2.1	94	97	3.1	70 - 130	30	
Acetone	ND	104	110	5.6	114	117	2.6	70 - 130	30	
Acrylonitrile	ND	97	106	8.9	99	110	10.5	70 - 130	30	
Benzene	ND	100	106	5.8	104	101	2.9	70 - 130	30	
Bromobenzene	ND	103	109	5.7	105	103	1.9	70 - 130	30	
Bromochloromethane	ND	99	102	3.0	106	105	0.9	70 - 130	30	
Bromodichloromethane	ND	105	110	4.7	110	110	0.0	70 - 130	30	
Bromoform	ND	98	104	5.9	107	104	2.8	70 - 130	30	

QA/QC Data

SDG I.D.: GBD39015

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromomethane	ND	54	70	25.8	<40	45	NC	70 - 130	30	l,m
Carbon Disulfide	ND	84	95	12.3	96	95	1.0	70 - 130	30	
Carbon tetrachloride	ND	109	115	5.4	116	112	3.5	70 - 130	30	
Chlorobenzene	ND	103	109	5.7	107	102	4.8	70 - 130	30	
Chloroethane	ND	93	109	15.8	95	95	0.0	70 - 130	30	
Chloroform	ND	100	108	7.7	109	107	1.9	70 - 130	30	
Chloromethane	ND	84	95	12.3	82	86	4.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	102	112	9.3	110	106	3.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	93	100	7.3	101	100	1.0	70 - 130	30	
Dibromochloromethane	ND	105	111	5.6	111	108	2.7	70 - 130	30	
Dibromomethane	ND	102	108	5.7	105	106	0.9	70 - 130	30	
Dichlorodifluoromethane	ND	101	111	9.4	94	92	2.2	70 - 130	30	
Ethylbenzene	ND	103	108	4.7	109	104	4.7	70 - 130	30	
Hexachlorobutadiene	ND	94	103	9.1	104	100	3.9	70 - 130	30	
Isopropylbenzene	ND	107	115	7.2	110	105	4.7	70 - 130	30	
m&p-Xylene	ND	104	110	5.6	109	104	4.7	70 - 130	30	
Methyl ethyl ketone	ND	78	86	9.8	94	93	1.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	83	87	4.7	95	94	1.1	70 - 130	30	
Methylene chloride	ND	96	98	2.1	104	106	1.9	70 - 130	30	
Naphthalene	ND	107	114	6.3	102	107	4.8	70 - 130	30	
n-Butylbenzene	ND	101	110	8.5	108	105	2.8	70 - 130	30	
n-Propylbenzene	ND	110	117	6.2	108	105	2.8	70 - 130	30	
o-Xylene	ND	110	115	4.4	110	104	5.6	70 - 130	30	
p-Isopropyltoluene	ND	107	118	9.8	111	107	3.7	70 - 130	30	
sec-Butylbenzene	ND	103	111	7.5	108	106	1.9	70 - 130	30	
Styrene	ND	102	107	4.8	108	103	4.7	70 - 130	30	
tert-Butylbenzene	ND	107	116	8.1	110	107	2.8	70 - 130	30	
Tetrachloroethene	ND	103	108	4.7	107	102	4.8	70 - 130	30	
Tetrahydrofuran (THF)	ND	81	96	16.9	90	94	4.3	70 - 130	30	
Toluene	ND	102	108	5.7	106	102	3.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	98	106	7.8	106	106	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	90	95	5.4	101	99	2.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	53	59	10.7	60	65	8.0	70 - 130	30	l,m
Trichloroethene	ND	111	115	3.5	109	105	3.7	70 - 130	30	
Trichlorofluoromethane	ND	98	106	7.8	105	104	1.0	70 - 130	30	
Trichlorotrifluoroethane	ND	95	101	6.1	105	102	2.9	70 - 130	30	
Vinyl chloride	ND	88	99	11.8	87	86	1.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	100	99	1.0	100	99	1.0	70 - 130	30	
% Bromofluorobenzene	95	100	99	1.0	103	102	1.0	70 - 130	30	
% Dibromofluoromethane	93	95	94	1.1	96	100	4.1	70 - 130	30	
% Toluene-d8	98	100	99	1.0	99	100	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of 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.

QA/QC Data

SDG I.D.: GBD39015

Parameter	Blank	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
March 05, 2013

Sample Criteria Exceedences Report

GBD39015 - MAGUIRE

Requested Criteria: GAM, GBM, GWP, RC, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD39015	$8100SMR	2-Methylnaphthalene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (m	1300	270	980	980	ug/Kg
BD39015	$8260MAR	Chloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	54	54	ug/Kg
BD39015	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	40	40	ug/Kg
BD39015	$8260MAR	Bromomethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	500	200	200	ug/Kg
BD39015	$8260MAR	1,1-Dichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	140	140	ug/Kg
BD39015	$8260MAR	Methylene chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	100	100	ug/Kg
BD39015	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	10	10	ug/Kg
BD39015	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	280	100	100	ug/Kg
BD39015	$8260MAR	Chloroform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	120	120	ug/Kg
BD39015	$8260MAR	Carbon tetrachloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	100	100	ug/Kg
BD39015	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	20	20	ug/Kg
BD39015	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	280	200	200	ug/Kg
BD39015	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	20	20	ug/Kg
BD39015	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	280	200	200	ug/Kg
BD39015	$8260MAR	Trichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	100	100	ug/Kg
BD39015	$8260MAR	1,2-Dichloropropane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	100	100	ug/Kg
BD39015	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	11	11	ug/Kg
BD39015	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	280	110	110	ug/Kg
BD39015	$8260MAR	1,1,2-Trichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	100	100	ug/Kg
BD39015	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	10	10	ug/Kg
BD39015	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	280	100	100	ug/Kg
BD39015	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/k	ND	280	7	7	ug/Kg
BD39015	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	100	100	ug/Kg
BD39015	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	170	10	10	ug/Kg
BD39015	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	170	100	100	ug/Kg
BD39015	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	20	20	ug/Kg
BD39015	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	280	200	200	ug/Kg
BD39015	$8260MAR	Bromoform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	280	80	80	ug/Kg
BD39015	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	ND	170	10	10	ug/Kg
BD39015	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	170	100	100	ug/Kg
BD39015	$8260MAR	p-Isopropyltoluene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC (	780	280	600	600	ug/Kg
BD39015	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg)	1900	58	500	500	mg/Kg
BD39015	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1900	58	500	500	mg/Kg
BD39015	SPLP-AS	SPLP Arsenic	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.012	0.004	0.01	0.01	mg/L
BD39015	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.050	0.010	0.015	0.015	mg/L
BD39016	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	1.8	0.020	0.06	0.06	ug/L
BD39016	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	1.8	0.020	0.3	0.3	ug/L
BD39016	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	1.7	0.020	0.08	0.08	ug/L
BD39016	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	1.7	0.020	0.3	0.3	ug/L
BD39016	$8100SIMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.93	0.020	0.5	0.5	ug/L
BD39016	$8100SIMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.93	0.020	0.3	0.3	ug/L

Sample Criteria Exceedences Report

GBD39015 - MAGUIRE

Requested Criteria: GAM, GBM, GWP, RC, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD39016	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.82	0.020	0.2	0.2	ug/L
BD39016	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.82	0.020	0.3	0.3	ug/L
BD39016	$8100SIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.23	0.010	0.2	0.2	ug/L
BD39016	$8100SIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.23	0.010	0.01	0.01	ug/L
BD39016	$8100SIMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.56	0.020	0.2	0.2	ug/L
BD39016	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	8	0.070	0.077	0.077	ug/L
BD39016	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BD39016	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BD39016	$ETPH_WMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GWPC (µg/L)	0.82	0.070	0.5	0.5	mg/L
BD39016	AS-WM	Arsenic	CT / INORGANIC SUBSTANCES / GWPC (µg/L)	0.023	0.004	0.01	0.01	mg/L
BD39016	AS-WM	Arsenic	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.023	0.004	0.004	0.004	mg/L
BD39016	BA-WM	Barium	CT / INORGANIC SUBSTANCES / GWPC (µg/L)	1.95	0.002	1	1	mg/L
BD39016	CD-WM	Cadmium	CT / INORGANIC SUBSTANCES / GWPC (µg/L)	0.007	0.001	0.005	0.005	mg/L
BD39016	CD-WM	Cadmium	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.007	0.001	0.006	0.006	mg/L
BD39016	CR-WM	Chromium	CT / INORGANIC SUBSTANCES / GWPC (µg/L)	0.236	0.001	0.1	0.1	mg/L
BD39016	HG-WM	Mercury	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.0009	0.0002	0.0004	0.0004	mg/L
BD39016	PB-WM	Lead	CT / INORGANIC SUBSTANCES / GWPC (µg/L)	0.203	0.002	0.015	0.015	mg/L
BD39016	PB-WM	Lead	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.203	0.002	0.013	0.013	mg/L
BD39017	SPLP-AS	SPLP Arsenic	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.074	0.004	0.01	0.01	mg/L
BD39017	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.137	0.010	0.015	0.015	mg/L
BD39018	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.023	0.010	0.015	0.015	mg/L

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGUIRE

Project Location: MIDDLETOWN PUMP STATION **Project Number:**

Laboratory Sample ID(s): BD39015, BD39016, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023

Sampling Date(s): 2/22/2013

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☑ 7470/7471	☐ 8081	☐ EPH	☐ TO15
☑ 8082	☐ 8151	☑ 8260	☑ 8270	☑ ETPH	☐ 9010/9012	☐ VPH	

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Tuesday, March 05, 2013

Printed Name: Maryam Taylor

Position: Project Manager

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

The client requested a shorter list of elements than the 6010 RCP list.

Volatile 8260 analysis: (BD39016)
The reporting level for Acrylonitrile is above the GWP criteria.
1,2-Dibromoethane does not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:(BD39016)
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

Not all constituents met requested criteria due to the presence of target and non target compounds causing a necessary dilution.

ETPH Narration

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

Instrument: Au-fid1 02/24/13-2 (BD39019, BD39020, BD39021, BD39022, BD39023)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 2/24/2013

Instrument: Au-fid84 02/24/13-2 (BD39017, BD39018)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C36

Printed Name Jeff Bucko
Position: Chemist
Date: 2/24/2013

Instrument: Au-xl1 02/26/13-2 (BD39016)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 2/26/2013

Instrument: Au-xl2 02/24/13-2 (BD39015)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

Printed Name Jeff Bucko
Position: Chemist
Date: 2/24/2013

QC (Batch Specific)

---------- Sample No: BD38475, QA/QC Batch: 222014 ----------

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 20% with the following exceptions: None.

---------- Sample No: BD38572, QA/QC Batch: 221790 ----------

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.

Mercury Narration

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

Instrument: Merlin 02/25/13-1 (BD39015, BD39016, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 2/25/2013

Instrument: Merlin 02/26/13-1 (BD39021, BD39022, BD39023)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 2/26/2013

Instrument: Merlin 02/27/13-1 (BD39015, BD39017, BD39018, BD39019, BD39020)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 2/27/2013

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

QC (Batch Specific)

---------- Sample No: BD38388, QA/QC Batch: 221949 ----------

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.

---------- Sample No: BD38665, QA/QC Batch: 221951 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD39545, QA/QC Batch: 222050 ----------

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.

ICP Narration

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

Instrument: Arcos 02/25/13-1 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 2/25/2013

Instrument: Blue 02/22/13-1 (BD39016)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

Printed Name Laura Kinnin
Position: Chemist
Date: 2/22/2013

Instrument: Blue 02/25/13-1 (BD39015, BD39016, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 2/25/2013

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

QC (Site Specific)

---------- Sample No: BD39016, QA/QC Batch: 221915 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD39023, QA/QC Batch: 221964 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD37829, QA/QC Batch: 221714 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD38475, QA/QC Batch: 221823 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD38819, QA/QC Batch: 221896 ----------

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PAH Narration

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

Instrument: Chem07 02/24/13-1 (BD39021)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem07/BN_0222):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 2/24/2013

Instrument: Chem12 02/22/13-1 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem12/BN_0207)
Greater than 90% of the target compounds met calibration criteria: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 2/22/2013

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

Instrument: Chem12 02/24/13-1 (BD39023)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem12/BN_0207)
Greater than 90% of the target compounds met calibration criteria: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 2/24/2013

QC (Site Specific)

---------- Sample No: BD39021, QA/QC Batch: 221884 ----------

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.

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.

QC (Batch Specific)

---------- Sample No: BD38490, QA/QC Batch: 221785 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

PCB Narration

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

Instrument: Au-ecd3 02/25/13-1 (BD39016)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/25/2013

Instrument: Au-ecd8 02/25/13-1 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/25/2013

QC (Batch Specific)

---------- Sample No: BD38135, QA/QC Batch: 221811 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD38705, QA/QC Batch: 221793 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

SVOASIM Narration

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

Instrument: Chem04 02/25/13-1 (BD39016)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem04/SIM_0212):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibraion criteria with a %D <20. The following compunds had >20% difference from the initial calibration: % Nitrobenzene-d5, Nitrobenzene

Printed Name Damien Drobinski
Position: Chemist
Date: 2/25/2013

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

QC (Site Specific)

---------- Sample No: BD39021, QA/QC Batch: 221884 ----------

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.

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.

QC (Batch Specific)

---------- Sample No: BD38490, QA/QC Batch: 221785 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

VOA Narration

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

QC Batch 221997 (Samples: BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023): -----

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

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Hexanone, Acetone, Hexachlorobutadiene, Methyl ethyl ketone, Naphthalene)

QC Batch 222074 (Samples: BD39016): -----

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is likely. (2,2-Dichloropropane, Bromomethane)

The QC recoveries for one or more analytes is below the lower range, but within the method criteria. A slight low bias is likely. (trans-1,4-dichloro-2-butene)

Instrument: Chem02 02/25/13-1 (BD39016)

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

P-Side
(Initial Calibration RPP_0218):
All SPCCs, CCCs and >80% of target compounds met criteria except that the following compounds had %RSDs >20%: Trans-1,4-dichloro-2-butene, Naphthalene

Continuing Calibration Verification:
All SPCCs, CCCs and >80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >30%: Bromomethane, trans-1,4-Dichloro-2-butene

Printed Name Tina Covensky
Position: Chemist
Date: 2/25/2013

Instrument: Chem18 02/24/13-1 (BD39015, BD39017, BD39018, BD39019, BD39020, BD39021, BD39022, BD39023)

Initial Calibration Verification (CHEM18/RCPS_0224#1):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone and Trans-1,4-dichloro-2-butene

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Tetrahydrofuran (THF)

Printed Name Johanna Harrington
Position: Chemist
Date: 2/24/2013

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39015

QC (Site Specific)

---------- Sample No: BD39022, QA/QC Batch: 221997 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(136%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(53%), 1,2,4-Trichlorobenzene(59%), 2-Hexanone(52%), Acetone(66%), Hexachlorobutadiene(52%), Methyl ethyl ketone(46%), Naphthalene(68%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(67%), 2-Hexanone(56%), Hexachlorobutadiene(64%), Methyl ethyl ketone(51%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BD39473, QA/QC Batch: 222074 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(56%), Bromomethane(54%), trans-1,4-dichloro-2-butene(53%)

All LCSD recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(62%), trans-1,4-dichloro-2-butene(59%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 1°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] N [ ]

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 1 °C Pg 1 of 1

Data Delivery:
[ ] Fax #:
[X] Email: janewitherell@CDRMaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Highway
Rocky Hill, CT 06067

Project: Middletown Pump Station
Report to: Jane Witherell
Invoice to: CDR Maguire-Bid Prices

Project P.O: 14712.02
Phone #: 860-563-3162
Fax #:

Client Sample - Information - Identification

Sampler's Signature: Joseph Buehler
Date: 2/22/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC's	PAH's	ETPH	PCB's	Total RCRA Metals	SPLP RCRA Metals	Dissolved RCRA Metals						Soil VOA Vials (/) methanol (Z) H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is (3) HCl	GL Amber 1000ml (M) [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle (FF)
39015	PSGP-10	S	2/22	8:00	X	X	X	X	X	X							3	2								
39016	MW-10	GW		8:10	X	X	X	X	X		X									3	4				2	
39017	PSGP-13	S		9:00	X	X	X	X	X	X							3	2								
39018	PSGP-15	S		9:20	X	X	X	X	X	X							3	2								
39019	PSGP-2	S		9:40	X	X	X	X	X	X							3	2								
39020	PSGP-36	S		10:30	X	X	X	X	X	X							3	2								
39021	PSGP-9	S		10:45	X	X	X	X	X	X							3	2								
39022	PSGP-17	S		11:10	X	X	X	X	X	X							3	2								
39023	PSGP-16	S		12:00	X	X	X	X	X	X							3	2								

Relinquished by:	Accepted by:	Date:	Time:
	Paradise	2/22/13	1358

Comments, Special Requirements or Regulations:
PSGP-10 18-20 PSGP-36 5-7
PSGP-13 5-7 PSGP-9 0-2
PSGP-15 2-4 PSGP-17 1-3
PSGP-2 3-5 PSGP-16 18-20
PSGP-15 refusal @ 4'
PSGP-9 refusal @ 3'

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

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

CT
[X] RCP Cert
[X] GW Protection
[X] SW Protection
[ ] GA Mobility
[X] 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

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

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

State where samples were collected: CT

* SURCHARGE APPLIES

PHOENIX
Environmental Laboratories, Inc.

Tuesday, March 05, 2013

Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Project ID: MIDDLETOWN PUMP STATION
Sample ID#s: BD39731 - BD39739

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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

NY # 11301

SDG Comments

March 05, 2013

SDG I.D.: GBD39731

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	02/25/13	8:00
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39731

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-14

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.80	0.80	mg/Kg	02/26/13	LK	SW6010
Arsenic	2.2	0.7	mg/Kg	02/26/13	LK	SW6010
Barium	74.7	0.34	mg/Kg	02/26/13	LK	SW6010
Cadmium	< 0.34	0.34	mg/Kg	02/26/13	LK	SW6010
Chromium	17.6	0.34	mg/Kg	02/26/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/28/13	RS	SW-7471
Lead	7.73	0.34	mg/Kg	02/26/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	02/26/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/26/13	EK	SW6010
SPLP Barium	0.144	0.010	mg/L	02/26/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/26/13	EK	SW6010
SPLP Chromium	0.011	0.010	mg/L	02/26/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/27/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/26/13	EK	SW6010
SPLP Metals Digestion	Completed			02/26/13	X/X	SW846-3005
Percent Solid	91		%	02/25/13	JL	E160.3
Soil Extraction for PCB	Completed			02/25/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/25/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/25/13	JS/V	3545
Mercury Digestion	Completed			02/28/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/27/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/25/13	X	EPA 1312
Total Metals Digest	Completed			02/25/13	AG	SW846 - 3050
Field Extraction	Completed			02/25/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/26/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-14

Phoenix I.D.: BD39731

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	83		%	02/26/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	02/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	75		%	02/26/13	AW	30 - 150 %
% TCMX	80		%	02/26/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	03/01/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
2-Hexanone	ND	25	ug/Kg	03/01/13	H/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	03/01/13	H/J	SW8260
Acetone	ND	100	ug/Kg	03/01/13	H/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Benzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-14

Phoenix I.D.: BD39731

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Bromoform	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Bromomethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Chloroethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Chloroform	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Chloromethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	03/01/13	H/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	03/01/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/01/13	H/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Naphthalene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
o-Xylene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Styrene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/01/13	H/J	SW8260
Toluene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/01/13	H/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	03/01/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	03/01/13	H/J	70 - 130 %
% Bromofluorobenzene	96		%	03/01/13	H/J	70 - 130 %
% Dibromofluoromethane	94		%	03/01/13	H/J	70 - 130 %
% Toluene-d8	98		%	03/01/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	02/26/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-14

Phoenix I.D.: BD39731

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Chrysene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Naphthalene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	02/26/13	DD	SW 8270
Pyrene	ND	250	ug/Kg	02/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	76		%	02/26/13	DD	30 - 130 %
% Nitrobenzene-d5	69		%	02/26/13	DD	30 - 130 %
% Terphenyl-d14	113		%	02/26/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	02/25/13	8:20
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39732

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-6

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.80	0.80	mg/Kg	02/26/13	LK	SW6010
Arsenic	2.3	0.7	mg/Kg	02/26/13	LK	SW6010
Barium	104	0.35	mg/Kg	02/26/13	LK	SW6010
Cadmium	< 0.35	0.35	mg/Kg	02/26/13	LK	SW6010
Chromium	13.7	0.35	mg/Kg	02/26/13	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	02/28/13	RS	SW-7471
Lead	65.6	0.35	mg/Kg	02/26/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	02/26/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/26/13	EK	SW6010
SPLP Barium	0.064	0.010	mg/L	02/26/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/26/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/27/13	RS	1312/SW7470
SPLP Lead	0.012	0.010	mg/L	02/26/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/26/13	EK	SW6010
SPLP Metals Digestion	Completed			02/26/13	X/X	SW846-3005
Percent Solid	88		%	02/25/13	JL	E160.3
Soil Extraction for PCB	Completed			02/25/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/25/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/25/13	JS/V	3545
Mercury Digestion	Completed			02/28/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/27/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/25/13	X	EPA 1312
Total Metals Digest	Completed			02/25/13	AG	SW846 - 3050
Field Extraction	Completed			02/25/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/26/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-6

Phoenix I.D.: BD39732

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	93		%	02/26/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	370	ug/Kg	02/26/13	AW	SW 8082
PCB-1221	ND	370	ug/Kg	02/26/13	AW	SW 8082
PCB-1232	ND	370	ug/Kg	02/26/13	AW	SW 8082
PCB-1242	ND	370	ug/Kg	02/26/13	AW	SW 8082
PCB-1248	ND	370	ug/Kg	02/26/13	AW	SW 8082
PCB-1254	ND	370	ug/Kg	02/26/13	AW	SW 8082
PCB-1260	ND	370	ug/Kg	02/26/13	AW	SW 8082
PCB-1262	ND	370	ug/Kg	02/26/13	AW	SW 8082
PCB-1268	ND	370	ug/Kg	02/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	74		%	02/26/13	AW	30 - 150 %
% TCMX	78		%	02/26/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	03/01/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2-Dibromoethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	03/01/13	H/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	03/01/13	H/J	SW8260
Acetone	ND	110	ug/Kg	03/01/13	H/J	SW8260
Acrylonitrile	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Benzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-6

Phoenix I.D.: BD39732

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Bromoform	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Bromomethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Chloroethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Chloroform	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Chloromethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	03/01/13	H/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	03/01/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	03/01/13	H/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Naphthalene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
o-Xylene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Styrene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	03/01/13	H/J	SW8260
Toluene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	03/01/13	H/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	03/01/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	03/01/13	H/J	70 - 130 %
% Bromofluorobenzene	96		%	03/01/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	03/01/13	H/J	70 - 130 %
% Toluene-d8	99		%	03/01/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/26/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-6

Phoenix I.D.: BD39732

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benz(a)anthracene	470	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(a)pyrene	450	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(b)fluoranthene	620	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(ghi)perylene	280	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Chrysene	460	260	ug/Kg	02/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Fluoranthene	1000	260	ug/Kg	02/26/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Phenanthrene	510	260	ug/Kg	02/26/13	DD	SW 8270
Pyrene	970	260	ug/Kg	02/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	75		%	02/26/13	DD	30 - 130 %
% Nitrobenzene-d5	72		%	02/26/13	DD	30 - 130 %
% Terphenyl-d14	114		%	02/26/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JB	02/25/13	8:40
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39733

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-6

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Semi-Volatile Extraction	Completed			02/27/13	I/D	SW3520
TPH by GC (Extractable Products)						
Ext. Petroleum HC	0.40	0.10	mg/L	03/01/13	JRB	CTETPH/8015D
Identification	**		mg/L	03/01/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	NR		%	03/01/13	JRB	50 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	02/27/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	02/27/13	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-6

Phoenix I.D.: BD39733

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
2,2-Dichloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	02/27/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	02/27/13	R/T	SW8260
Acetone	ND	25	ug/L	02/27/13	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	02/27/13	R/T	SW8260
Benzene	ND	0.70	ug/L	02/27/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	02/27/13	R/T	SW8260
Bromoform	ND	1.0	ug/L	02/27/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	02/27/13	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	02/27/13	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Chloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Chloroform	ND	1.0	ug/L	02/27/13	R/T	SW8260
Chloromethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	02/27/13	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	02/27/13	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	02/27/13	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
m&p-Xylene	1.2	1.0	ug/L	02/27/13	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	02/27/13	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	02/27/13	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	02/27/13	R/T	SW8260
Naphthalene	ND	1.0	ug/L	02/27/13	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
o-Xylene	ND	1.0	ug/L	02/27/13	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Styrene	ND	1.0	ug/L	02/27/13	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	02/27/13	R/T	SW8260
Toluene	1.4	1.0	ug/L	02/27/13	R/T	SW8260
Total Xylenes	1.2	1.0	ug/L	02/27/13	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	02/27/13	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	02/27/13	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-6

Phoenix I.D.: BD39733

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Vinyl chloride	ND	1.0	ug/L	02/27/13	R/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	02/27/13	R/T	70 - 130 %
% Bromofluorobenzene	92		%	02/27/13	R/T	70 - 130 %
% Dibromofluoromethane	98		%	02/27/13	R/T	70 - 130 %
% Toluene-d8	99		%	02/27/13	R/T	70 - 130 %
Semivolatiles by SIM						
2-Methylnaphthalene	ND	0.14	ug/L	02/28/13	DD	8270(SIM)
Acenaphthene	ND	0.14	ug/L	02/28/13	DD	8270(SIM)
Acenaphthylene	ND	0.14	ug/L	02/28/13	DD	8270(SIM)
Anthracene	ND	0.14	ug/L	02/28/13	DD	8270(SIM)
Benz(a)anthracene	0.69	0.029	ug/L	02/28/13	DD	8270(SIM)
Benzo(a)pyrene	0.69	0.029	ug/L	02/28/13	DD	8270(SIM)
Benzo(b)fluoranthene	0.91	0.029	ug/L	02/28/13	DD	8270(SIM)
Benzo(ghi)perylene	0.47	0.14	ug/L	02/28/13	DD	8270(SIM)
Benzo(k)fluoranthene	0.34	0.029	ug/L	02/28/13	DD	8270(SIM)
Chrysene	0.59	0.029	ug/L	02/28/13	DD	8270(SIM)
Dibenz(a,h)anthracene	0.14	0.014	ug/L	02/28/13	DD	8270(SIM)
Fluoranthene	1.6	0.14	ug/L	02/28/13	DD	8270(SIM)
Fluorene	ND	0.14	ug/L	02/28/13	DD	8270(SIM)
Indeno(1,2,3-cd)pyrene	0.44	0.029	ug/L	02/28/13	DD	8270(SIM)
Naphthalene	0.23	0.14	ug/L	02/28/13	DD	8270(SIM)
Phenanthrene	0.33	0.10	ug/L	02/28/13	DD	8270(SIM)
Pyrene	1.5	0.14	ug/L	02/28/13	DD	8270(SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	76		%	02/28/13	DD	30 - 130 %
% Nitrobenzene-d5	110		%	02/28/13	DD	30 - 130 %
% Terphenyl-d14	130		%	02/28/13	DD	30 - 130 %

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

Comments:

* Due to limited sample volume the ETPH was analyze using the semi-volatile PAH extract. Therefore no surrogate could be reportd.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	02/25/13	9:15
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39734

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-12

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.80	0.80	mg/Kg	02/26/13	LK	SW6010
Arsenic	3.0	0.7	mg/Kg	02/26/13	LK	SW6010
Barium	95.7	0.37	mg/Kg	02/26/13	LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	02/26/13	LK	SW6010
Chromium	17.8	0.37	mg/Kg	02/26/13	LK	SW6010
Mercury	0.29	0.09	mg/Kg	02/28/13	RS	SW-7471
Lead	42.2	0.37	mg/Kg	02/26/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/26/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Arsenic	0.006	0.004	mg/L	02/26/13	LK	SW6010
SPLP Barium	0.067	0.010	mg/L	02/26/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/26/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/27/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/26/13	EK	SW6010
SPLP Metals Digestion	Completed			02/26/13	X/X	SW846-3005
Percent Solid	87		%	02/25/13	JL	E160.3
Soil Extraction for PCB	Completed			02/25/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/25/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/25/13	JS/V	3545
Mercury Digestion	Completed			02/28/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/27/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/25/13	X	EPA 1312
Total Metals Digest	Completed			02/25/13	AG	SW846 - 3050
Field Extraction	Completed			02/25/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	79	11	mg/Kg	02/26/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-12

Phoenix I.D.: BD39734

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	02/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	83		%	02/26/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	02/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	84		%	02/26/13	AW	30 - 150 %
% TCMX	81		%	02/26/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,1,1-Trichloroethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	03/01/13	H/J	SW8260
1,1,2-Trichloroethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloroethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloroethene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloropropene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2,3-Trichloropropane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2-Dibromoethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichlorobenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichloroethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichloropropane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,3-Dichlorobenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,3-Dichloropropane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
1,4-Dichlorobenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
2,2-Dichloropropane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
2-Chlorotoluene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
2-Hexanone	ND	23	ug/Kg	03/01/13	H/J	SW8260
2-Isopropyltoluene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
4-Chlorotoluene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	03/01/13	H/J	SW8260
Acetone	ND	93	ug/Kg	03/01/13	H/J	SW8260
Acrylonitrile	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Benzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Bromobenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Bromochloromethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Bromoform	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Bromomethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Carbon Disulfide	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Carbon tetrachloride	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Chlorobenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Chloroethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Chloroform	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Chloromethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	03/01/13	H/J	SW8260
Dibromomethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Dichlorodifluoromethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Ethylbenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Hexachlorobutadiene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Isopropylbenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
m&p-Xylene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	03/01/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.3	ug/Kg	03/01/13	H/J	SW8260
Methylene chloride	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Naphthalene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
n-Butylbenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
n-Propylbenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
o-Xylene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
p-Isopropyltoluene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
sec-Butylbenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Styrene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
tert-Butylbenzene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Tetrachloroethene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	9.3	ug/Kg	03/01/13	H/J	SW8260
Toluene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Total Xylenes	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.3	ug/Kg	03/01/13	H/J	SW8260
Trichloroethene	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Trichlorofluoromethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Trichlorotrifluoroethane	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
Vinyl chloride	ND	4.7	ug/Kg	03/01/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	03/01/13	H/J	70 - 130 %
% Bromofluorobenzene	97		%	03/01/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	03/01/13	H/J	70 - 130 %
% Toluene-d8	96		%	03/01/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/26/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-12

Phoenix I.D.: BD39734

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(b)fluoranthene	270	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Fluoranthene	660	260	ug/Kg	02/26/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Pyrene	590	260	ug/Kg	02/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	77		%	02/26/13	DD	30 - 130 %
% Nitrobenzene-d5	69		%	02/26/13	DD	30 - 130 %
% Terphenyl-d14	121		%	02/26/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	02/25/13	9:50
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39735

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-11

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.80	0.80	mg/Kg	02/26/13	LK	SW6010
Arsenic	2.0	0.7	mg/Kg	02/26/13	LK	SW6010
Barium	68.3	0.34	mg/Kg	02/26/13	LK	SW6010
Cadmium	< 0.34	0.34	mg/Kg	02/26/13	LK	SW6010
Chromium	17.3	0.34	mg/Kg	02/26/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/28/13	RS	SW-7471
Lead	9.14	0.34	mg/Kg	02/26/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	02/26/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/26/13	EK	SW6010
SPLP Barium	0.092	0.010	mg/L	02/26/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/26/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/27/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/26/13	EK	SW6010
SPLP Metals Digestion	Completed			02/26/13	X/X	SW846-3005
Percent Solid	86		%	02/25/13	JL	E160.3
Soil Extraction for PCB	Completed			02/25/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/25/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/25/13	JS/V	3545
Mercury Digestion	Completed			02/28/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/27/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/25/13	X	EPA 1312
Total Metals Digest	Completed			02/25/13	AG	SW846 - 3050
Field Extraction	Completed			02/25/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/26/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-11

Phoenix I.D.: BD39735

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	85		%	02/26/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	02/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	77		%	02/26/13	AW	30 - 150 %
% TCMX	83		%	02/26/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	03/01/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloroethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloroethene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,1-Dichloropropene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2-Dibromoethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichloroethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,2-Dichloropropane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,3-Dichloropropane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
2,2-Dichloropropane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
2-Chlorotoluene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
2-Hexanone	ND	26	ug/Kg	03/01/13	H/J	SW8260
2-Isopropyltoluene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
4-Chlorotoluene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	03/01/13	H/J	SW8260
Acetone	ND	100	ug/Kg	03/01/13	H/J	SW8260
Acrylonitrile	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Benzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Bromobenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Bromochloromethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Bromoform	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Bromomethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Carbon Disulfide	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Carbon tetrachloride	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Chlorobenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Chloroethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Chloroform	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Chloromethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	03/01/13	H/J	SW8260
Dibromomethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Ethylbenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Hexachlorobutadiene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Isopropylbenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
m&p-Xylene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	03/01/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/01/13	H/J	SW8260
Methylene chloride	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Naphthalene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
n-Butylbenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
n-Propylbenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
o-Xylene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
p-Isopropyltoluene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
sec-Butylbenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Styrene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
tert-Butylbenzene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Tetrachloroethene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/01/13	H/J	SW8260
Toluene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Total Xylenes	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/01/13	H/J	SW8260
Trichloroethene	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Trichlorofluoromethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
Vinyl chloride	ND	5.2	ug/Kg	03/01/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	03/01/13	H/J	70 - 130 %
% Bromofluorobenzene	98		%	03/01/13	H/J	70 - 130 %
% Dibromofluoromethane	97		%	03/01/13	H/J	70 - 130 %
% Toluene-d8	98		%	03/01/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	02/26/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-11

Phoenix I.D.: BD39735

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Pyrene	ND	270	ug/Kg	02/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	68		%	02/26/13	DD	30 - 130 %
% Nitrobenzene-d5	66		%	02/26/13	DD	30 - 130 %
% Terphenyl-d14	113		%	02/26/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	02/25/13	10:15
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39736

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-8

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.80	0.80	mg/Kg	02/26/13	LK	SW6010
Arsenic	1.4	0.7	mg/Kg	02/26/13	LK	SW6010
Barium	64.5	0.34	mg/Kg	02/26/13	LK	SW6010
Cadmium	< 0.34	0.34	mg/Kg	02/26/13	LK	SW6010
Chromium	9.21	0.34	mg/Kg	02/26/13	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	02/28/13	RS	SW-7471
Lead	3.54	0.34	mg/Kg	02/26/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	02/26/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/26/13	EK	SW6010
SPLP Barium	0.038	0.010	mg/L	02/26/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/26/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/27/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/26/13	EK	SW6010
SPLP Metals Digestion	Completed			02/26/13	X/X	SW846-3005
Percent Solid	91		%	02/25/13	JL	E160.3
Soil Extraction for PCB	Completed			02/25/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/25/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/25/13	JS/V	3545
Mercury Digestion	Completed			02/28/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/27/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/25/13	X	EPA 1312
Total Metals Digest	Completed			02/25/13	AG	SW846 - 3050
Field Extraction	Completed			02/25/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	180	11	mg/Kg	02/26/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-8

Phoenix I.D.: BD39736

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	02/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	88		%	02/26/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	02/26/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	02/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	78		%	02/26/13	AW	30 - 150 %
% TCMX	81		%	02/26/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.4	ug/Kg	02/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloroethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloroethene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloropropene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2-Dibromoethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichloroethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichloropropane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,3-Dichloropropane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
2,2-Dichloropropane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
2-Chlorotoluene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
2-Hexanone	ND	20	ug/Kg	02/28/13	R/J	SW8260
2-Isopropyltoluene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
4-Chlorotoluene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	20	ug/Kg	02/28/13	R/J	SW8260
Acetone	ND	81	ug/Kg	02/28/13	R/J	SW8260
Acrylonitrile	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Benzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Bromobenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Bromochloromethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-8

Phoenix I.D.: BD39736

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Bromoform	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Bromomethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Carbon Disulfide	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Carbon tetrachloride	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Chlorobenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Chloroethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Chloroform	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Chloromethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Dibromochloromethane	ND	2.4	ug/Kg	02/28/13	R/J	SW8260
Dibromomethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Ethylbenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Hexachlorobutadiene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Isopropylbenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
m&p-Xylene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	24	ug/Kg	02/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	8.1	ug/Kg	02/28/13	R/J	SW8260
Methylene chloride	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Naphthalene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
n-Butylbenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
n-Propylbenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
o-Xylene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
p-Isopropyltoluene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
sec-Butylbenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Styrene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
tert-Butylbenzene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Tetrachloroethene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	8.1	ug/Kg	02/28/13	R/J	SW8260
Toluene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Total Xylenes	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	8.1	ug/Kg	02/28/13	R/J	SW8260
Trichloroethene	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Trichlorofluoromethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
Vinyl chloride	ND	4.1	ug/Kg	02/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	02/28/13	R/J	70 - 130 %
% Bromofluorobenzene	96		%	02/28/13	R/J	70 - 130 %
% Dibromofluoromethane	97		%	02/28/13	R/J	70 - 130 %
% Toluene-d8	99		%	02/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/26/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-8

Phoenix I.D.: BD39736

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	02/26/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	02/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	72		%	02/26/13	DD	30 - 130 %
% Nitrobenzene-d5	66		%	02/26/13	DD	30 - 130 %
% Terphenyl-d14	105		%	02/26/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	02/25/13	11:10
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39737

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-40

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.80	0.80	mg/Kg	02/26/13	LK	SW6010
Arsenic	3.9	0.8	mg/Kg	02/26/13	LK	SW6010
Barium	62.7	0.41	mg/Kg	02/26/13	LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	02/26/13	LK	SW6010
Chromium	14.3	0.41	mg/Kg	02/26/13	LK	SW6010
Mercury	0.45	0.06	mg/Kg	02/28/13	RS	SW-7471
Lead	122	0.41	mg/Kg	02/26/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	02/26/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Arsenic	0.005	0.004	mg/L	02/26/13	LK	SW6010
SPLP Barium	0.074	0.010	mg/L	02/26/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/26/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/27/13	RS	1312/SW7470
SPLP Lead	0.056	0.010	mg/L	02/26/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/26/13	EK	SW6010
SPLP Metals Digestion	Completed			02/26/13	X/X	SW846-3005
Percent Solid	86		%	02/25/13	JL	E160.3
Soil Extraction for PCB	Completed			02/25/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/25/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/25/13	JS/V	3545
Mercury Digestion	Completed			02/28/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/27/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/25/13	X	EPA 1312
Total Metals Digest	Completed			02/25/13	AG	SW846 - 3050
Field Extraction	Completed			02/25/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	12	mg/Kg	02/26/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-40

Phoenix I.D.: BD39737

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	83		%	02/26/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	02/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	38		%	02/26/13	AW	30 - 150 %
% TCMX	42		%	02/26/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	02/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2-Dibromoethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	02/28/13	R/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Acetone	ND	110	ug/Kg	02/28/13	R/J	SW8260
Acrylonitrile	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Benzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Bromoform	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Bromomethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Chloroethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Chloroform	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Chloromethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	02/28/13	R/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	02/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	02/28/13	R/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Naphthalene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
o-Xylene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Styrene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	02/28/13	R/J	SW8260
Toluene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	02/28/13	R/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	02/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	116		%	02/28/13	R/J	70 - 130 %
% Bromofluorobenzene	121		%	02/28/13	R/J	70 - 130 %
% Dibromofluoromethane	100		%	02/28/13	R/J	70 - 130 %
% Toluene-d8	95		%	02/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Acenaphthylene	280	270	ug/Kg	02/26/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-40

Phoenix I.D.: BD39737

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benz(a)anthracene	680	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(a)pyrene	600	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(b)fluoranthene	770	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(ghi)perylene	370	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(k)fluoranthene	280	270	ug/Kg	02/26/13	DD	SW 8270
Chrysene	820	270	ug/Kg	02/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Fluoranthene	1400	270	ug/Kg	02/26/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	320	270	ug/Kg	02/26/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Phenanthrene	330	270	ug/Kg	02/26/13	DD	SW 8270
Pyrene	1700	270	ug/Kg	02/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	79		%	02/26/13	DD	30 - 130 %
% Nitrobenzene-d5	73		%	02/26/13	DD	30 - 130 %
% Terphenyl-d14	116		%	02/26/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	JB	02/25/13	12:00
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39738

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-41

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.80	0.80	mg/Kg	02/26/13	LK	SW6010
Arsenic	19.9	0.7	mg/Kg	02/26/13	LK	SW6010
Barium	548	0.37	mg/Kg	02/26/13	LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	02/26/13	LK	SW6010
Chromium	19.2	0.37	mg/Kg	02/26/13	LK	SW6010
Mercury	0.31	0.07	mg/Kg	02/28/13	RS	SW-7471
Lead	12500	37	mg/Kg	02/26/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/26/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/26/13	EK	SW6010
SPLP Barium	0.064	0.010	mg/L	02/26/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/26/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/26/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/27/13	RS	1312/SW7470
SPLP Lead	0.019	0.010	mg/L	02/26/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/26/13	EK	SW6010
SPLP Metals Digestion	Completed			02/26/13	X/X	SW846-3005
Percent Solid	85		%	02/25/13	JL	E160.3
Soil Extraction for PCB	Completed			02/25/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/25/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/25/13	JS/V	3545
Mercury Digestion	Completed			02/28/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/27/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/25/13	X	EPA 1312
Total Metals Digest	Completed			02/25/13	AG	SW846 - 3050
Field Extraction	Completed			02/25/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	12	mg/Kg	02/26/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-41

Phoenix I.D.: BD39738

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/26/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	90		%	02/26/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	02/26/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	02/26/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	74		%	02/26/13	AW	30 - 150 %
% TCMX	77		%	02/26/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	02/28/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
2-Hexanone	ND	27	ug/Kg	02/28/13	R/J	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	02/28/13	R/J	SW8260
Acetone	ND	110	ug/Kg	02/28/13	R/J	SW8260
Acrylonitrile	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Benzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Bromobenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Bromochloromethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-41

Phoenix I.D.: BD39738

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Bromoform	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Bromomethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Chlorobenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Chloroethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Chloroform	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Chloromethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	02/28/13	R/J	SW8260
Dibromomethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Ethylbenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
m&p-Xylene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	02/28/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	02/28/13	R/J	SW8260
Methylene chloride	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Naphthalene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
n-Butylbenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
o-Xylene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Styrene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	02/28/13	R/J	SW8260
Toluene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Total Xylenes	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	02/28/13	R/J	SW8260
Trichloroethene	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
Vinyl chloride	ND	5.4	ug/Kg	02/28/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	02/28/13	R/J	70 - 130 %
% Bromofluorobenzene	97		%	02/28/13	R/J	70 - 130 %
% Dibromofluoromethane	98		%	02/28/13	R/J	70 - 130 %
% Toluene-d8	97		%	02/28/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	02/26/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-41

Phoenix I.D.: BD39738

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Fluoranthene	420	270	ug/Kg	02/26/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	02/26/13	DD	SW 8270
Pyrene	580	270	ug/Kg	02/26/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	56		%	02/26/13	DD	30 - 130 %
% Nitrobenzene-d5	62		%	02/26/13	DD	30 - 130 %
% Terphenyl-d14	110		%	02/26/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

Analysis Report

March 05, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	JB	02/25/13	11:15
Location Code:	MAGUIRE	Received by:	SW	02/25/13	16:18
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD39731
Phoenix ID: BD39739

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-40

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.002	0.002	mg/L	02/26/13	EK	SW6010
Arsenic	< 0.004	0.004	mg/L	02/26/13	EK	SW6010
Barium	0.341	0.002	mg/L	02/26/13	EK	SW6010
Cadmium	0.005	0.001	mg/L	02/26/13	EK	SW6010
Chromium	0.040	0.001	mg/L	02/26/13	EK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	02/26/13	LK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	02/26/13	LK	SW6010
Barium (Dissolved)	0.096	0.002	mg/L	02/26/13	LK	SW6010
Cadmium (Dissolved)	0.007	0.001	mg/L	02/26/13	LK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	02/26/13	LK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	02/27/13	RS	SW7470
Lead (Dissolved)	< 0.002	0.002	mg/L	02/26/13	LK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	02/26/13	LK	SW6010
Mercury	0.0010	0.0002	mg/L	02/27/13	RS	SW7470
Lead	0.220	0.002	mg/L	02/26/13	EK	SW6010
Selenium	< 0.016	0.016	mg/L	02/26/13	EK	SW6010
Extraction of CT ETPH	Completed			02/26/13	I/D	3510/3520
Dissolved Mercury Digestion	Completed			02/27/13	X/X	SW7470
Mercury Digestion	Completed			02/27/13	X/X	SW7470
PCB Extraction	Completed			02/25/13	BT	SW3510C
Semi-Volatile Extraction	Completed			02/27/13	I/D	SW3520
Dissolved Metals Preparation	Completed			02/26/13	AG	SW846-3005
Total Metals Digestion	Completed			02/25/13	AG	
TPH by GC (Extractable Products)						
Ext. Petroleum HC	0.89	0.070	mg/L	02/28/13	JRB	CTETPH/8015D
Identification	**		mg/L	02/28/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	73		%	02/28/13	JRB	50 - 150 %

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-40

Phoenix I.D.: BD39739

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Polychlorinated Biphenyls						
PCB-1016	ND	0.50	ug/L	02/26/13	AW	8082
PCB-1221	ND	0.50	ug/L	02/26/13	AW	8082
PCB-1232	ND	0.50	ug/L	02/26/13	AW	8082
PCB-1242	ND	0.50	ug/L	02/26/13	AW	8082
PCB-1248	ND	0.50	ug/L	02/26/13	AW	8082
PCB-1254	ND	0.50	ug/L	02/26/13	AW	8082
PCB-1260	ND	0.50	ug/L	02/26/13	AW	8082
PCB-1262	ND	0.50	ug/L	02/26/13	AW	8082
PCB-1268	ND	0.50	ug/L	02/26/13	AW	8082
QA/QC Surrogates						
% DCBP	101		%	02/26/13	AW	30 - 150 %
% TCMX	84		%	02/26/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	02/27/13	R/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	02/27/13	R/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	02/27/13	R/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
2-Hexanone	ND	5.0	ug/L	02/27/13	R/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	02/27/13	R/T	SW8260
Acetone	ND	25	ug/L	02/27/13	R/T	SW8260
Acrylonitrile	ND	5.0	ug/L	02/27/13	R/T	SW8260
Benzene	ND	0.70	ug/L	02/27/13	R/T	SW8260
Bromobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Bromochloromethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	02/27/13	R/T	SW8260
Bromoform	ND	1.0	ug/L	02/27/13	R/T	SW8260
Bromomethane	ND	1.0	ug/L	02/27/13	R/T	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-40

Phoenix I.D.: BD39739

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Carbon Disulfide	ND	5.0	ug/L	02/27/13	R/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	02/27/13	R/T	SW8260
Chlorobenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Chloroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Chloroform	ND	1.0	ug/L	02/27/13	R/T	SW8260
Chloromethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	02/27/13	R/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	02/27/13	R/T	SW8260
Dibromomethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Ethylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	02/27/13	R/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
m&p-Xylene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	02/27/13	R/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	02/27/13	R/T	SW8260
Methylene chloride	ND	1.0	ug/L	02/27/13	R/T	SW8260
Naphthalene	ND	1.0	ug/L	02/27/13	R/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
o-Xylene	ND	1.0	ug/L	02/27/13	R/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Styrene	ND	1.0	ug/L	02/27/13	R/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	02/27/13	R/T	SW8260
Toluene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Total Xylenes	ND	1.0	ug/L	02/27/13	R/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	02/27/13	R/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	02/27/13	R/T	SW8260
Trichloroethene	ND	1.0	ug/L	02/27/13	R/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	02/27/13	R/T	SW8260
Vinyl chloride	ND	1.0	ug/L	02/27/13	R/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	02/27/13	R/T	70 - 130 %
% Bromofluorobenzene	92		%	02/27/13	R/T	70 - 130 %
% Dibromofluoromethane	102		%	02/27/13	R/T	70 - 130 %
% Toluene-d8	99		%	02/27/13	R/T	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	0.33	0.10	ug/L	02/28/13	DD	8270(SIM)
Acenaphthene	0.23	0.10	ug/L	02/28/13	DD	8270(SIM)
Acenaphthylene	0.54	0.10	ug/L	02/28/13	DD	8270(SIM)
Anthracene	0.35	0.10	ug/L	02/28/13	DD	8270(SIM)
Benz(a)anthracene	0.92	0.020	ug/L	02/28/13	DD	8270(SIM)
Benzo(a)pyrene	1.3	0.020	ug/L	02/28/13	DD	8270(SIM)

Project ID: MIDDLETOWN PUMP STATION
Client ID: MW-40

Phoenix I.D.: BD39739

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzo(b)fluoranthene	1.5	0.020	ug/L	02/28/13	DD	8270(SIM)
Benzo(ghi)perylene	1.5	0.10	ug/L	02/28/13	DD	8270(SIM)
Benzo(k)fluoranthene	0.53	0.020	ug/L	02/28/13	DD	8270(SIM)
Chrysene	1	0.020	ug/L	02/28/13	DD	8270(SIM)
Dibenz(a,h)anthracene	0.32	0.010	ug/L	02/28/13	DD	8270(SIM)
Fluoranthene	2.7	0.10	ug/L	02/28/13	DD	8270(SIM)
Fluorene	0.23	0.10	ug/L	02/28/13	DD	8270(SIM)
Indeno(1,2,3-cd)pyrene	1.2	0.020	ug/L	02/28/13	DD	8270(SIM)
Naphthalene	0.54	0.10	ug/L	02/28/13	DD	8270(SIM)
Phenanthrene	0.68	0.070	ug/L	02/28/13	DD	8270(SIM)
Pyrene	2.8	0.10	ug/L	02/28/13	DD	8270(SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	77		%	02/28/13	DD	30 - 130 %
% Nitrobenzene-d5	119		%	02/28/13	DD	30 - 130 %
% Terphenyl-d14	43		%	02/28/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 05, 2013
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

QA/QC Report

March 05, 2013

QA/QC Data

SDG I.D.: GBD39731

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 221964, QC Sample No: BD39023 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)												
ICP Metals - SPLP Extraction												
Arsenic	BRL	0.006	0.005	NC	99.1	98.2	0.9	102	101	1.0	75 - 125	20
Barium	BRL	0.064	0.064	0	100	102	2.0	100	98.8	1.2	75 - 125	20
Cadmium	BRL	<0.005	<0.005	NC	102	101	1.0	102	100	2.0	75 - 125	20
Chromium	BRL	<0.010	<0.010	NC	98.6	97.6	1.0	100	99.3	0.7	75 - 125	20
Lead	BRL	<0.010	<0.010	NC	100	99.5	0.5	101	100	1.0	75 - 125	20
Selenium	BRL	<0.020	<0.020	NC	100	99.9	0.1	103	102	1.0	75 - 125	20
Silver	BRL	<0.010	<0.010	NC	96.6	96.7	0.1	99.4	98.2	1.2	75 - 125	20
QA/QC Batch 222261, QC Sample No: BD39386 (BD39731, BD39732, BD39734)												
Mercury - Soil	BRL	<0.08	<0.06	NC	97.2	98.4	1.2	99.7	101	1.3	70 - 130	30
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 222016, QC Sample No: BD39545 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)												
ICP Metals - Soil												
Arsenic	BRL	1.7	1.56	NC	98.5	97.7	0.8	95.3	93.2	2.2	75 - 125	30
Barium	BRL	28.6	26.4	8.00	99.1	108	8.6	89.8	88.5	1.5	75 - 125	30
Cadmium	BRL	<0.46	<0.44	NC	102	99.6	2.4	97.7	95.6	2.2	75 - 125	30
Chromium	BRL	15.0	14.5	3.40	104	103	1.0	103	101	2.0	75 - 125	30
Lead	BRL	14.0	13.7	2.20	102	102	0.0	98.5	96.0	2.6	75 - 125	30
Selenium	BRL	<1.8	<1.8	NC	104	104	0.0	83.4	81.5	2.3	75 - 125	30
Silver	BRL	<0.46	<0.44	NC	97.8	95.9	2.0	98.6	96.4	2.3	75 - 125	30
QA/QC Batch 222041, QC Sample No: BD39656 (BD39739)												
ICP Metals - Aqueous												
Arsenic	BRL	<0.004	<0.004	NC	94.1	97.3	3.3	99.1	99.2	0.1	75 - 125	20
Barium	BRL	0.095	0.094	1.10	98.2	101	2.8	96.6	96.6	0.0	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	96.9	99.7	2.8	94.7	94.7	0.0	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	97.2	99.5	2.3	96.3	96.4	0.1	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	97.0	99.1	2.1	93.9	93.9	0.0	75 - 125	20
Selenium	BRL	<0.010	<0.010	NC	89.3	91.7	2.7	93.0	92.9	0.1	75 - 125	20
Silver	BRL	<0.005	<0.005	NC	94.2	94.6	0.4	95.6	95.7	0.1	75 - 125	20
QA/QC Batch 222262, QC Sample No: BD39736 (BD39735, BD39736, BD39737, BD39738)												
Mercury - Soil	BRL	<0.08	<0.08	NC	98.9	97.1	1.8	106	99.1	6.7	70 - 130	30
Comment:												
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.												
QA/QC Batch 222048, QC Sample No: BD39739 (BD39739)												
ICP Metals - Dissolved												
Arsenic	BRL	<0.004	<0.004	NC	91.3	90.7	0.7	97.2	94.7	2.6	75 - 125	20
Barium	BRL	0.096	0.096	0	95.2	94.0	1.3	94.5	92.3	2.4	75 - 125	20
Cadmium	BRL	0.007	0.007	0	95.8	95.6	0.2	98.7	96.6	2.2	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	94.2	93.3	1.0	97.0	94.6	2.5	75 - 125	20

QA/QC Data

SDG I.D.: GBD39731

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Lead	BRL	<0.002	<0.002	NC	94.9	94.1	0.8	97.7	95.1	2.7	75 - 125	20
Selenium	BRL	<0.011	<0.011	NC	86.9	87.5	0.7	93.2	90.9	2.5	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	90.1	89.3	0.9	82.9	81.1	2.2	75 - 125	20
QA/QC Batch 222155, QC Sample No: BD40309 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738, BD39739)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	95.8	94.6	1.3	94.8	96.2	1.5	70 - 130	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

PHOENIX

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

QA/QC Report

March 05, 2013

QA/QC Data

SDG I.D.: GBD39731

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 221914, QC Sample No: BD38475 (BD39739)										
Polychlorinated Biphenyls - Ground Water										
PCB-1016	ND	93			84	81	3.6	40 - 140	20	
PCB-1221	ND							40 - 140	20	
PCB-1232	ND							40 - 140	20	
PCB-1242	ND							40 - 140	20	
PCB-1248	ND							40 - 140	20	
PCB-1254	ND							40 - 140	20	
PCB-1260	ND	108			98	96	2.1	40 - 140	20	
PCB-1262	ND							40 - 140	20	
PCB-1268	ND							40 - 140	20	
% DCBP (Surrogate Rec)	83	103			99	99	0.0	30 - 150	20	
% TCMX (Surrogate Rec)	62	79			72	66	8.7	30 - 150	20	
Comment:										
LCS Duplicate was not performed.										
QA/QC Batch 221899, QC Sample No: BD39291 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)										
Polychlorinated Biphenyls - Solid										
PCB-1016	ND	70	82	15.8	82	83	1.2	40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	74	87	16.1	85	86	1.2	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	48	60	69	14.0	66	73	10.1	30 - 150	30	
% TCMX (Surrogate Rec)	53	69	80	14.8	81	83	2.4	30 - 150	30	
QA/QC Batch 222460, QC Sample No: BD39314 (BD39731, BD39732, BD39734, BD39735)										
Volatiles - Solid										
1,1,1,2-Tetrachloroethane	ND	114	108	5.4	100	104	3.9	70 - 130	30	
1,1,1-Trichloroethane	ND	107	103	3.8	101	103	2.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	103	98	5.0	106	112	5.5	70 - 130	30	
1,1,2-Trichloroethane	ND	111	109	1.8	93	99	6.3	70 - 130	30	
1,1-Dichloroethane	ND	106	104	1.9	102	103	1.0	70 - 130	30	
1,1-Dichloroethene	ND	100	99	1.0	99	97	2.0	70 - 130	30	
1,1-Dichloropropene	ND	105	103	1.9	98	97	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	109	107	1.9	41	52	23.7	70 - 130	30	m
1,2,3-Trichloropropane	ND	98	93	5.2	103	106	2.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	103	101	2.0	47	57	19.2	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	110	106	3.7	94	94	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	109	109	0.0	79	96	19.4	70 - 130	30	

QA/QC Data

SDG I.D.: GBD39731

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dibromoethane	ND	108	106	1.9	90	96	6.5	70 - 130	30	
1,2-Dichlorobenzene	ND	107	106	0.9	78	88	12.0	70 - 130	30	
1,2-Dichloroethane	ND	107	103	3.8	99	101	2.0	70 - 130	30	
1,2-Dichloropropane	ND	105	102	2.9	99	101	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	107	104	2.8	100	100	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	107	105	1.9	82	88	7.1	70 - 130	30	
1,3-Dichloropropane	ND	106	105	0.9	96	100	4.1	70 - 130	30	
1,4-Dichlorobenzene	ND	105	103	1.9	79	86	8.5	70 - 130	30	
2,2-Dichloropropane	ND	110	106	3.7	91	90	1.1	70 - 130	30	
2-Chlorotoluene	ND	107	103	3.8	100	100	0.0	70 - 130	30	
2-Hexanone	ND	80	83	3.7	<40	<40	NC	70 - 130	30	m
2-Isopropyltoluene	ND	108	104	3.8	98	99	1.0	70 - 130	30	
4-Chlorotoluene	ND	105	103	1.9	92	93	1.1	70 - 130	30	
4-Methyl-2-pentanone	ND	98	97	1.0	76	79	3.9	70 - 130	30	
Acetone	ND	78	82	5.0	<40	<40	NC	70 - 130	30	m
Acrylonitrile	ND	105	102	2.9	79	77	2.6	70 - 130	30	
Benzene	ND	104	103	1.0	98	99	1.0	70 - 130	30	
Bromobenzene	ND	108	105	2.8	96	100	4.1	70 - 130	30	
Bromochloromethane	ND	107	106	0.9	97	101	4.0	70 - 130	30	
Bromodichloromethane	ND	112	109	2.7	98	103	5.0	70 - 130	30	
Bromoform	ND	120	115	4.3	83	96	14.5	70 - 130	30	
Bromomethane	ND	113	99	13.2	71	79	10.7	70 - 130	30	
Carbon Disulfide	ND	94	92	2.2	70	63	10.5	70 - 130	30	m
Carbon tetrachloride	ND	111	108	2.7	100	102	2.0	70 - 130	30	
Chlorobenzene	ND	109	105	3.7	91	96	5.3	70 - 130	30	
Chloroethane	ND	103	101	2.0	99	97	2.0	70 - 130	30	
Chloroform	ND	108	106	1.9	102	103	1.0	70 - 130	30	
Chloromethane	ND	102	97	5.0	81	82	1.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	111	106	4.6	102	104	1.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	109	106	2.8	84	90	6.9	70 - 130	30	
Dibromochloromethane	ND	117	114	2.6	95	104	9.0	70 - 130	30	
Dibromomethane	ND	110	107	2.8	96	99	3.1	70 - 130	30	
Dichlorodifluoromethane	ND	96	93	3.2	98	92	6.3	70 - 130	30	
Ethylbenzene	ND	105	101	3.9	96	99	3.1	70 - 130	30	
Hexachlorobutadiene	ND	108	100	7.7	63	66	4.7	70 - 130	30	m
Isopropylbenzene	ND	109	107	1.9	111	105	5.6	70 - 130	30	
m&p-Xylene	ND	106	104	1.9	91	93	2.2	70 - 130	30	
Methyl ethyl ketone	ND	74	74	0.0	<40	<40	NC	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	101	101	0.0	99	104	4.9	70 - 130	30	
Methylene chloride	ND	101	99	2.0	95	93	2.1	70 - 130	30	
Naphthalene	ND	109	109	0.0	<40	46	NC	70 - 130	30	m
n-Butylbenzene	ND	109	103	5.7	77	73	5.3	70 - 130	30	
n-Propylbenzene	ND	113	109	3.6	102	99	3.0	70 - 130	30	
o-Xylene	ND	114	108	5.4	94	98	4.2	70 - 130	30	
p-Isopropyltoluene	ND	111	106	4.6	85	81	4.8	70 - 130	30	
sec-Butylbenzene	ND	107	103	3.8	94	91	3.2	70 - 130	30	
Styrene	ND	112	103	8.4	60	73	19.5	70 - 130	30	m
tert-Butylbenzene	ND	109	106	2.8	104	105	1.0	70 - 130	30	
Tetrachloroethene	ND	108	103	4.7	98	97	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	100	99	1.0	87	91	4.5	70 - 130	30	
Toluene	ND	105	103	1.9	97	97	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	107	104	2.8	97	96	1.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	110	106	3.7	79	87	9.6	70 - 130	30	

QA/QC Data

SDG I.D.: GBD39731

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,4-dichloro-2-butene	ND	115	116	0.9	56	68	19.4	70 - 130	30	m
Trichloroethene	ND	110	110	0.0	92	92	0.0	70 - 130	30	
Trichlorofluoromethane	ND	108	106	1.9	101	99	2.0	70 - 130	30	
Trichlorotrifluoroethane	ND	106	101	4.8	100	94	6.2	70 - 130	30	
Vinyl chloride	ND	100	100	0.0	92	87	5.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	97	102	100	2.0	96	98	2.1	70 - 130	30	
% Bromofluorobenzene	97	102	100	2.0	92	94	2.2	70 - 130	30	
% Dibromofluoromethane	97	102	99	3.0	99	105	5.9	70 - 130	30	
% Toluene-d8	98	100	101	1.0	100	100	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 222008, QC Sample No: BD39545 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	69	69	0.0	85	74	13.8	60 - 120	30
% n-Pentacosane	57	62	59	5.0	90	83	8.1	50 - 150	30

QA/QC Batch 222106, QC Sample No: BD39656 (BD39739)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum HC	ND	83	83	0.0	77	90	15.6	60 - 120	20
% n-Pentacosane	100	97	99	2.0	89	101	12.6	50 - 150	20

QA/QC Batch 222018, QC Sample No: BD39731 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)

Polynuclear Aromatic HC - Solid

2-Methylnaphthalene	ND	68	70	2.9	66	68	3.0	30 - 130	30
Acenaphthene	ND	69	69	0.0	63	66	4.7	30 - 130	30
Acenaphthylene	ND	69	70	1.4	65	68	4.5	30 - 130	30
Anthracene	ND	71	71	0.0	67	70	4.4	30 - 130	30
Benz(a)anthracene	ND	70	72	2.8	72	75	4.1	30 - 130	30
Benzo(a)pyrene	ND	66	67	1.5	62	66	6.3	30 - 130	30
Benzo(b)fluoranthene	ND	77	75	2.6	71	74	4.1	30 - 130	30
Benzo(ghi)perylene	ND	60	62	3.3	65	62	4.7	30 - 130	30
Benzo(k)fluoranthene	ND	71	73	2.8	71	79	10.7	30 - 130	30
Chrysene	ND	72	72	0.0	69	72	4.3	30 - 130	30
Dibenz(a,h)anthracene	ND	62	65	4.7	67	64	4.6	30 - 130	30
Fluoranthene	ND	70	71	1.4	81	91	11.6	30 - 130	30
Fluorene	ND	68	70	2.9	64	66	3.1	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	62	64	3.2	66	64	3.1	30 - 130	30
Naphthalene	ND	69	70	1.4	66	69	4.4	30 - 130	30
Phenanthrene	ND	71	73	2.8	68	71	4.3	30 - 130	30
Pyrene	ND	71	71	0.0	84	95	12.3	30 - 130	30
% 2-Fluorobiphenyl	73	71	72	1.4	65	70	7.4	30 - 130	30
% Nitrobenzene-d5	69	65	67	3.0	64	67	4.6	30 - 130	30
% Terphenyl-d14	78	77	76	1.3	87	100	13.9	30 - 130	30

QA/QC Batch 222449, QC Sample No: BD39736 (BD39736, BD39737, BD39738)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	101	103	2.0	101	105	3.9	70 - 130	30
1,1,1-Trichloroethane	ND	100	98	2.0	100	102	2.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	87	87	0.0	94	105	11.1	70 - 130	30
1,1,2-Trichloroethane	ND	100	98	2.0	96	106	9.9	70 - 130	30
1,1-Dichloroethane	ND	102	103	1.0	108	105	2.8	70 - 130	30
1,1-Dichloroethene	ND	110	103	6.6	111	116	4.4	70 - 130	30
1,1-Dichloropropene	ND	89	100	11.6	103	94	9.1	70 - 130	30

QA/QC Data

SDG I.D.: GBD39731

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	102	89	13.6	64	85	28.2	70 - 130	30	m
1,2,3-Trichloropropane	ND	91	103	12.4	108	108	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	92	84	9.1	65	83	24.3	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	94	95	1.1	92	95	3.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	97	94	3.1	88	109	21.3	70 - 130	30	
1,2-Dibromoethane	ND	99	95	4.1	94	108	13.9	70 - 130	30	
1,2-Dichlorobenzene	ND	96	95	1.0	91	98	7.4	70 - 130	30	
1,2-Dichloroethane	ND	97	94	3.1	97	108	10.7	70 - 130	30	
1,2-Dichloropropane	ND	98	96	2.1	98	104	5.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	93	96	3.2	96	96	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	93	94	1.1	90	96	6.5	70 - 130	30	
1,3-Dichloropropane	ND	95	94	1.1	95	104	9.0	70 - 130	30	
1,4-Dichlorobenzene	ND	94	93	1.1	90	97	7.5	70 - 130	30	
2,2-Dichloropropane	ND	102	97	5.0	94	96	2.1	70 - 130	30	
2-Chlorotoluene	ND	90	92	2.2	94	97	3.1	70 - 130	30	
2-Hexanone	ND	76	73	4.0	76	86	12.3	70 - 130	30	
2-Isopropyltoluene	ND	96	97	1.0	95	95	0.0	70 - 130	30	
4-Chlorotoluene	ND	90	92	2.2	94	97	3.1	70 - 130	30	
4-Methyl-2-pentanone	ND	91	89	2.2	87	103	16.8	70 - 130	30	
Acetone	ND	78	68	13.7	73	87	17.5	70 - 130	30	l
Acrylonitrile	ND	101	102	1.0	101	109	7.6	70 - 130	30	
Benzene	ND	94	96	2.1	101	102	1.0	70 - 130	30	
Bromobenzene	ND	95	96	1.0	99	104	4.9	70 - 130	30	
Bromochloromethane	ND	93	99	6.3	102	99	3.0	70 - 130	30	
Bromodichloromethane	ND	100	99	1.0	98	105	6.9	70 - 130	30	
Bromoform	ND	106	105	0.9	97	109	11.7	70 - 130	30	
Bromomethane	ND	114	98	15.1	106	111	4.6	70 - 130	30	
Carbon Disulfide	ND	104	97	7.0	112	116	3.5	70 - 130	30	
Carbon tetrachloride	ND	102	104	1.9	103	102	1.0	70 - 130	30	
Chlorobenzene	ND	100	100	0.0	98	102	4.0	70 - 130	30	
Chloroethane	ND	118	109	7.9	117	123	5.0	70 - 130	30	
Chloroform	ND	98	97	1.0	100	102	2.0	70 - 130	30	
Chloromethane	ND	100	92	8.3	104	107	2.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	103	105	1.9	108	105	2.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	95	94	1.1	93	101	8.2	70 - 130	30	
Dibromochloromethane	ND	101	102	1.0	97	105	7.9	70 - 130	30	
Dibromomethane	ND	101	97	4.0	97	109	11.7	70 - 130	30	
Dichlorodifluoromethane	ND	105	97	7.9	108	115	6.3	70 - 130	30	
Ethylbenzene	ND	97	97	0.0	98	100	2.0	70 - 130	30	
Hexachlorobutadiene	ND	96	90	6.5	62	67	7.8	70 - 130	30	m
Isopropylbenzene	ND	97	99	2.0	101	99	2.0	70 - 130	30	
m&p-Xylene	ND	98	99	1.0	98	101	3.0	70 - 130	30	
Methyl ethyl ketone	ND	69	66	4.4	78	86	9.8	70 - 130	30	l
Methyl t-butyl ether (MTBE)	ND	96	97	1.0	104	110	5.6	70 - 130	30	
Methylene chloride	ND	105	99	5.9	104	113	8.3	70 - 130	30	
Naphthalene	ND	110	85	25.6	68	112	48.9	70 - 130	30	m,r
n-Butylbenzene	ND	90	91	1.1	81	84	3.6	70 - 130	30	
n-Propylbenzene	ND	98	99	1.0	97	97	0.0	70 - 130	30	
o-Xylene	ND	104	102	1.9	99	103	4.0	70 - 130	30	
p-Isopropyltoluene	ND	96	97	1.0	90	90	0.0	70 - 130	30	
sec-Butylbenzene	ND	94	95	1.1	93	91	2.2	70 - 130	30	
Styrene	ND	98	95	3.1	99	103	4.0	70 - 130	30	
tert-Butylbenzene	ND	96	99	3.1	98	96	2.1	70 - 130	30	

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrachloroethene	ND	100	102	2.0	101	102	1.0	70 - 130	30
Tetrahydrofuran (THF)	ND	84	88	4.7	88	96	8.7	70 - 130	30
Toluene	ND	98	96	2.1	98	102	4.0	70 - 130	30
trans-1,2-Dichloroethene	ND	103	100	3.0	103	107	3.8	70 - 130	30
trans-1,3-Dichloropropene	ND	96	93	3.2	92	105	13.2	70 - 130	30
trans-1,4-dichloro-2-butene	ND	92	91	1.1	87	99	12.9	70 - 130	30
Trichloroethene	ND	106	107	0.9	103	104	1.0	70 - 130	30
Trichlorofluoromethane	ND	113	108	4.5	109	111	1.8	70 - 130	30
Trichlorotrifluoroethane	ND	109	104	4.7	106	113	6.4	70 - 130	30
Vinyl chloride	ND	104	95	9.0	107	112	4.6	70 - 130	30
% 1,2-dichlorobenzene-d4	100	100	99	1.0	101	100	1.0	70 - 130	30
% Bromofluorobenzene	95	98	98	0.0	95	97	2.1	70 - 130	30
% Dibromofluoromethane	99	98	97	1.0	100	101	1.0	70 - 130	30
% Toluene-d8	98	98	98	0.0	97	98	1.0	70 - 130	30

Comment:

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

QA/QC Batch 222097, QC Sample No: BD39749 (BD39733, BD39739)

Semivolatiles - Ground Water

2-Methylnaphthalene	ND	81	82	1.2				30 - 130	20
Acenaphthene	ND	82	83	1.2				30 - 130	20
Acenaphthylene	ND	60	60	0.0				30 - 130	20
Anthracene	ND	84	85	1.2				30 - 130	20
Benz(a)anthracene	ND	87	86	1.2				30 - 130	20
Benzo(a)pyrene	ND	69	69	0.0				30 - 130	20
Benzo(b)fluoranthene	ND	81	84	3.6				30 - 130	20
Benzo(ghi)perylene	ND	92	91	1.1				30 - 130	20
Benzo(k)fluoranthene	ND	83	81	2.4				30 - 130	20
Chrysene	ND	92	89	3.3				30 - 130	20
Dibenz(a,h)anthracene	ND	88	91	3.4				30 - 130	20
Fluoranthene	ND	82	82	0.0				30 - 130	20
Fluorene	ND	83	83	0.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	89	89	0.0				30 - 130	20
Naphthalene	ND	81	83	2.4				30 - 130	20
Phenanthrene	ND	87	87	0.0				30 - 130	20
Pyrene	ND	78	80	2.5				30 - 130	20
% 2-Fluorobiphenyl	87	87	85	2.3				30 - 130	20
% Nitrobenzene-d5	122	75	77	2.6				30 - 130	20
% Terphenyl-d14	114	88	87	1.1				30 - 130	20

Comment:

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

QA/QC Batch 222304, QC Sample No: BD39824 (BD39733, BD39739)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	102	103	1.0	108	103	4.7	70 - 130	30
1,1,1-Trichloroethane	ND	93	94	1.1	104	97	7.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	96	97	1.0	101	101	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	103	102	1.0	102	103	1.0	70 - 130	30
1,1-Dichloroethane	ND	92	93	1.1	98	92	6.3	70 - 130	30
1,1-Dichloroethene	ND	96	98	2.1	103	97	6.0	70 - 130	30
1,1-Dichloropropene	ND	88	91	3.4	97	91	6.4	70 - 130	30
1,2,3-Trichlorobenzene	ND	108	108	0.0	106	106	0.0	70 - 130	30
1,2,3-Trichloropropane	ND	94	96	2.1	101	98	3.0	70 - 130	30

QA/QC Data

SDG I.D.: GBD39731

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trichlorobenzene	ND	105	107	1.9	106	107	0.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	106	108	1.9	110	104	5.6	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	108	105	2.8	106	109	2.8	70 - 130	30	
1,2-Dibromoethane	ND	102	102	0.0	104	103	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	100	103	3.0	104	102	1.9	70 - 130	30	
1,2-Dichloroethane	ND	74	75	1.3	84	84	0.0	70 - 130	30	
1,2-Dichloropropane	ND	96	98	2.1	101	98	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	105	106	0.9	111	104	6.5	70 - 130	30	
1,3-Dichlorobenzene	ND	106	106	0.0	108	105	2.8	70 - 130	30	
1,3-Dichloropropane	ND	96	96	0.0	100	99	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	103	104	1.0	105	102	2.9	70 - 130	30	
2,2-Dichloropropane	ND	84	83	1.2	92	83	10.3	70 - 130	30	
2-Chlorotoluene	ND	107	108	0.9	113	106	6.4	70 - 130	30	
2-Hexanone	ND	91	89	2.2	92	93	1.1	70 - 130	30	
2-Isopropyltoluene	ND	102	104	1.9	108	104	3.8	70 - 130	30	
4-Chlorotoluene	ND	103	106	2.9	112	105	6.5	70 - 130	30	
4-Methyl-2-pentanone	ND	88	91	3.4	92	92	0.0	70 - 130	30	
Acetone	ND	122	114	6.8	141	131	7.4	70 - 130	30	m
Acrylonitrile	ND	98	92	6.3	101	96	5.1	70 - 130	30	
Benzene	ND	89	91	2.2	93	89	4.4	70 - 130	30	
Bromobenzene	ND	109	109	0.0	111	108	2.7	70 - 130	30	
Bromochloromethane	ND	102	104	1.9	103	98	5.0	70 - 130	30	
Bromodichloromethane	ND	98	100	2.0	104	102	1.9	70 - 130	30	
Bromoform	ND	107	107	0.0	108	108	0.0	70 - 130	30	
Bromomethane	ND	107	107	0.0	80	94	16.1	70 - 130	30	
Carbon Disulfide	ND	88	89	1.1	93	86	7.8	70 - 130	30	
Carbon tetrachloride	ND	86	89	3.4	101	95	6.1	70 - 130	30	
Chlorobenzene	ND	104	103	1.0	107	101	5.8	70 - 130	30	
Chloroethane	ND	93	93	0.0	92	84	9.1	70 - 130	30	
Chloroform	ND	93	93	0.0	100	94	6.2	70 - 130	30	
Chloromethane	ND	94	94	0.0	92	84	9.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	104	105	1.0	101	99	2.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	98	98	0.0	101	98	3.0	70 - 130	30	
Dibromochloromethane	ND	106	106	0.0	110	107	2.8	70 - 130	30	
Dibromomethane	ND	99	101	2.0	101	100	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	99	99	0.0	85	77	9.9	70 - 130	30	
Ethylbenzene	ND	102	102	0.0	110	102	7.5	70 - 130	30	
Hexachlorobutadiene	ND	100	104	3.9	113	111	1.8	70 - 130	30	
Isopropylbenzene	ND	111	114	2.7	117	110	6.2	70 - 130	30	
m&p-Xylene	ND	102	103	1.0	107	100	6.8	70 - 130	30	
Methyl ethyl ketone	ND	74	75	1.3	91	90	1.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	81	82	1.2	89	91	2.2	70 - 130	30	
Methylene chloride	ND	91	91	0.0	92	89	3.3	70 - 130	30	
Naphthalene	ND	114	115	0.9	111	114	2.7	70 - 130	30	
n-Butylbenzene	ND	105	107	1.9	113	107	5.5	70 - 130	30	
n-Propylbenzene	ND	113	116	2.6	116	109	6.2	70 - 130	30	
o-Xylene	ND	106	106	0.0	103	99	4.0	70 - 130	30	
p-Isopropyltoluene	ND	108	111	2.7	115	107	7.2	70 - 130	30	
sec-Butylbenzene	ND	103	104	1.0	113	106	6.4	70 - 130	30	
Styrene	ND	100	101	1.0	102	98	4.0	70 - 130	30	
tert-Butylbenzene	ND	104	107	2.8	112	105	6.5	70 - 130	30	
Tetrachloroethene	ND	108	111	2.7	117	107	8.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	86	87	1.2	90	88	2.2	70 - 130	30	

QA/QC Data

SDG I.D.: GBD39731

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Toluene	ND	103	105	1.9	107	102	4.8	70 - 130	30
trans-1,2-Dichloroethene	ND	99	99	0.0	102	94	8.2	70 - 130	30
trans-1,3-Dichloropropene	ND	92	92	0.0	96	96	0.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	101	103	2.0	107	103	3.8	70 - 130	30
Trichloroethene	ND	110	112	1.8	112	104	7.4	70 - 130	30
Trichlorofluoromethane	ND	94	97	3.1	103	95	8.1	70 - 130	30
Trichlorotrifluoroethane	ND	101	102	1.0	113	103	9.3	70 - 130	30
Vinyl chloride	ND	96	97	1.0	97	89	8.6	70 - 130	30
% 1,2-dichlorobenzene-d4	99	98	99	1.0	99	98	1.0	70 - 130	30
% Bromofluorobenzene	91	95	95	0.0	96	96	0.0	70 - 130	30
% Dibromofluoromethane	104	102	100	2.0	101	98	3.0	70 - 130	30
% Toluene-d8	98	99	101	2.0	99	100	1.0	70 - 130	30

Comment:

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

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
March 05, 2013

Sample Criteria Exceedences Report

GBD39731 - MAGUIRE

Requested Criteria: GBM, GWP, RC, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD39733	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.69	0.029	0.06	0.06	ug/L
BD39733	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.69	0.029	0.3	0.3	ug/L
BD39733	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.91	0.029	0.08	0.08	ug/L
BD39733	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.91	0.029	0.3	0.3	ug/L
BD39733	$8100SIMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.34	0.029	0.3	0.3	ug/L
BD39733	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.69	0.029	0.2	0.2	ug/L
BD39733	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.69	0.029	0.3	0.3	ug/L
BD39733	$8100SIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.14	0.014	0.01	0.01	ug/L
BD39733	$8100SIMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.44	0.029	0.2	0.2	ug/L
BD39733	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.33	0.10	0.077	0.077	ug/L
BD39733	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BD39733	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BD39738	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	19.9	0.7	10	10	mg/Kg
BD39738	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	12500	37	400	400	mg/Kg
BD39739	$8100SIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.54	0.10	0.3	0.3	ug/L
BD39739	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.92	0.020	0.06	0.06	ug/L
BD39739	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.92	0.020	0.3	0.3	ug/L
BD39739	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	1.5	0.020	0.08	0.08	ug/L
BD39739	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	1.5	0.020	0.3	0.3	ug/L
BD39739	$8100SIMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.53	0.020	0.5	0.5	ug/L
BD39739	$8100SIMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.53	0.020	0.3	0.3	ug/L
BD39739	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	1.3	0.020	0.2	0.2	ug/L
BD39739	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	1.3	0.020	0.3	0.3	ug/L
BD39739	$8100SIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.32	0.010	0.2	0.2	ug/L
BD39739	$8100SIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.32	0.010	0.01	0.01	ug/L
BD39739	$8100SIMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	1.2	0.020	0.2	0.2	ug/L
BD39739	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.68	0.070	0.077	0.077	ug/L
BD39739	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BD39739	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BD39739	$ETPH_WMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GWPC (µg/L)	0.89	0.070	0.5	0.5	mg/L
BD39739	D-CD	Cadmium (Dissolved)	CT / INORGANIC SUBSTANCES / GWPC (µg/L)	0.007	0.001	0.005	0.005	mg/L
BD39739	D-CD	Cadmium (Dissolved)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.007	0.001	0.006	0.006	mg/L
BD39739	HG-WM	Mercury	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.0010	0.0002	0.0004	0.0004	mg/L
BD39739	PB-WM	Lead	CT / INORGANIC SUBSTANCES / GWPC (µg/L)	0.220	0.002	0.015	0.015	mg/L
BD39739	PB-WM	Lead	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.220	0.002	0.013	0.013	mg/L

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGUIRE

Project Location: MIDDLETOWN PUMP STATION **Project Number:**

Laboratory Sample ID(s): BD39731, BD39732, BD39733, BD39734, BD39735, BD39736, BD39737, BD39738, BD39739

Sampling Date(s): 2/25/2013

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☑ 7470/7471	☐ 8081	☐ EPH	☐ TO15
☑ 8082	☐ 8151	☑ 8260	☑ 8270	☑ ETPH	☐ 9010/9012	☐ VPH	

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Tuesday, March 05, 2013

Printed Name: Greg Lawrence

Position: Assistant Lab Director

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

The client requested a shorter list of elements than the 6010 RCP list.

Volatile 8260 analysis:
The reporting level for Acrylonitrile is above the GWP criteria.
1,2-Dibromoethane does not meet GWP criteria, this compound is analyzed by GC/ECD to achieve this criteria.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

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

Instrument: Au-fid1 02/26/13-2 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C10

Printed Name Jeff Bucko
Position: Chemist
Date: 2/26/2013

Instrument: Au-xl2 02/28/13-1 (BD39739)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C36

Printed Name Jeff Bucko
Position: Chemist
Date: 2/28/2013

Instrument: Au-xl2 03/01/13-1 (BD39733)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

Printed Name Jeff Bucko
Position: Chemist
Date: 3/1/2013

QC (Batch Specific)

---------- Sample No: BD39545, QA/QC Batch: 222008 ----------

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.

---------- Sample No: BD39656, QA/QC Batch: 222106 ----------

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 20% with the following exceptions: None.

Mercury Narration

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

Instrument: Merlin 02/27/13-1 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738, BD39739)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 2/27/2013

Instrument: Merlin 02/28/13-1 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

further action is taken.

Printed Name	Rick Schweitzer
Position:	Chemist
Date:	2/28/2013

QC (Site Specific)

---------- Sample No: BD39736, QA/QC Batch: 222262 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD39386, QA/QC Batch: 222261 ----------

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.

---------- Sample No: BD40309, QA/QC Batch: 222155 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

ICP Narration

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

Instrument: Arcos 02/25/13-1 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 2/25/2013

Instrument: Arcos 02/26/13-1 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 2/26/2013

Instrument: Blue 02/26/13-1 (BD39739)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 2/26/2013

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

QC (Site Specific)

---------- Sample No: BD39739, QA/QC Batch: 222048 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD39023, QA/QC Batch: 221964 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD39545, QA/QC Batch: 222016 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD39656, QA/QC Batch: 222041 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PAH Narration

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

Instrument: Chem07 02/27/13-2 (BD39731)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem07/BN_0222):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None

Printed Name Damien Drobinski
Position: Chemist
Date: 2/27/2013

QC (Site Specific)

---------- Sample No: BD39731, QA/QC Batch: 222018 ----------

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.

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.

QC (Batch Specific)

---------- Sample No: BD39749, QA/QC Batch: 222097 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PCB Narration

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

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

Instrument: Au-ecd3 02/26/13-1 (BD39739)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/26/2013

Instrument: Au-ecd8 02/26/13-1 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/26/2013

QC Comments: QC Batch 221914 02/22/13 (BD39739)

LCS Duplicate was not performed.

QC (Batch Specific)

---------- Sample No: BD38475, QA/QC Batch: 221914 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

---------- Sample No: BD39291, QA/QC Batch: 221899 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

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

Instrument: Chem04 02/28/13-1 (BD39733, BD39739)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

Initial Calibration (Chem04/SV_0120):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Hexachlorocyclopentadiene, 3-nitroaniline, Acenaphthene, 2,4-dinitrophenol, 2-nitroaniline, Pentachlorophenol, Fluoranthene, Pyrene, Benzyl Butyl Phthalate, % Terphenyl-d14

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: % Nitrobenzene-d5, Nitrobenzene

Printed Name Damien Drobinski
Position: Chemist
Date: 2/28/2013

Instrument: Chem07 02/25/13-2 (BD39731, BD39732, BD39734, BD39735, BD39736, BD39737, BD39738)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem07/SV_0222):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Benzaldehyde, 2,4-dinitrophenol, Carbazole

The following compounds failed to meet the minimum required response factor: 2-nitrophenol, Hexachlorobenzene

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: Benzaldehyde, Aniline, Benzyl Alcohol, 4-Chloroaniline, 2,4-Dinitrophenol, Atrazine, Carbazole

Printed Name Damien Drobinski
Position: Chemist
Date: 2/25/2013

Instrument: Chem07 02/26/13-1 (BD39731)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem07/SV_0222):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Benzaldehyde, 2,4-dinitrophenol, Carbazole

The following compounds failed to meet the minimum required response factor: 2-nitrophenol, Hexachlorobenzene

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: Benzaldehyde, Aniline, Benzyl Alcohol, Pentachlorophenol, Atrazine, 3,3'-dichlorobenzidine

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

Printed Name	Damien Drobinski
Position:	Chemist
Date:	2/26/2013

QC (Site Specific)

---------- Sample No: BD39731, QA/QC Batch: 222018 ----------

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.

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.

QC (Batch Specific)

---------- Sample No: BD39749, QA/QC Batch: 222097 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

SVOASIM Narration

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

Instrument: Chem04 02/28/13-1 (BD39733, BD39739)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem04/SIM_0212):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

Continuing Calibration:
Greater than 80% of target compounds met continuing calibraion criteria with a %D <20. The following compunds had >20% difference from the initial calibration: % Nitrobenzene-d5, Nitrobenzene

Printed Name Damien Drobinski
Position: Chemist
Date: 2/28/2013

QC (Site Specific)

---------- Sample No: BD39731, QA/QC Batch: 222018 ----------

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.

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.

QC (Batch Specific)

---------- Sample No: BD39749, QA/QC Batch: 222097 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

VOA Narration

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

QC Batch 222449 (Samples: BD39736, BD39737, BD39738): -----

The LCSD recovery is below the lower range, but within the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Acetone)

The LCS/LCSD recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is possible. (Methyl ethyl ketone)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene)

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

Instrument: Chem03 02/28/13-2 (BD39736, BD39737, BD39738)

Initial Calibration Verification (RCPS_0227):
>90% of target compounds met method criteria.
The following compounds had %RSDs >20%: Acetone

Continuing Calibration Verification:
>80% of target compounds met method criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: None.

Printed Name Johanna Harrington
Position: Chemist
Date: 2/28/2013

Instrument: Chem17 02/28/13-2 (BD39733, BD39739)

Initial Calibration (RCPS_0215):
All SPCCs, CCCs and >80% of target compounds met criteria except that the following compounds had %RSDs >20%: Acetone

Continuing Calibration Verification:
The following compounds had % Deviations >30%: Dichlorodifluoromethane, Acetone, 1,2-Dichloroethane

Printed Name Tina Covensky
Position: Chemist
Date: 2/28/2013

Instrument: Chem18 02/28/13-1 (BD39731, BD39732, BD39734, BD39735)

Initial Calibration Verification (CHEM18/RCPS_0228#1):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane, Bromoform, Trans-1,4-dichloro-2-butene, 1,2-dibromo-3-chloropropane

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Tetrahydrofuran (THF)

Printed Name Johanna Harrington
Position: Chemist
Date: 2/28/2013

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

RCP Certification Report

March 05, 2013

SDG I.D.: GBD39731

QC (Site Specific)

---------- Sample No: BD39736, QA/QC Batch: 222449 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Methyl ethyl ketone(69%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(68%), Methyl ethyl ketone(66%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(64%), 1,2,4-Trichlorobenzene(65%), Hexachlorobutadiene(62%), Naphthalene(68%)

All MSD recoveries were within 70 - 130 with the following exceptions: Hexachlorobutadiene(67%)

All MS/MSD RPDs were less than 30% with the following exceptions: Naphthalene(48.9%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BD39314, QA/QC Batch: 222460 ----------

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.

---------- Sample No: BD39824, QA/QC Batch: 222304 ----------

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.

Temperature Narration

The samples were received at 1C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] N [ ]

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 1 °C Pg of

Data Delivery:
[ ] Fax #:
[X] Email: jane Witherell@CDRMaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Highway
Rocky Hill CT 06067

Project: Middletown Pump Station
Report to: Jane Witherell
Invoice to: CDR Maguire-Bid Prices

Project P.O: 14712.02
Phone #: 860-563-3162
Fax #:

Client Sample - Information - Identification

Sampler's Signature: Joseph Buehler
Date: 2/25/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC's	PAH's	ETPH	PCB's	Total RCRA Metals	SPLP RCRA Metals	Dissolved RCRA Metals						Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container (3) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL ~~HNO3~~ 500ml	Bacteria Bottle
39731	PSGP-14	S	2/25	8:00	X	X	X	X	X	X							3	2								
39732	PSGP-6	S	↓	8:20	X	X	X	X	X	X							3	2								
39733	MW-6 *	GW		8:40	X	X	X	X	X	X	X									3	1					
39734	PSGP-12	S		9:15	X	X	X	X	X	X							3	2								
39735	PSGP-11	S		9:50	X	X	X	X	X	X							3	2								
39736	PSGP-8	S		10:15	X	X	X	X	X	X							3	2								
39737	PSGP-40	S		11:10	X	X	X	X	X	X							3	2								
39738	PSGP-41	S		12:00	X	X	X	X	X	X							3	2								
39739	MW-40	GW		11:15	X	X	X	X	X		X									3	4			1	1	

* only 1 Amber + 3 vous rec'd
emailed Client 2/25/13 (SW)

Relinquished by:	Accepted by:	Date:	Time:
	Whitehouse	2/25/13	1618

Comments, Special Requirements or Regulations:

PSGP-14 3-5
PSGP-6 13-15
PSGP-12 12-14
PSGP-11 13-15
PSGP-8 5-7
PSGP-40 8-10
PSGP-41 8-10

PSGP-14 = Refusal @ 9'
MW-6 = H2O @ 20' Limited Recov
MW-41 = H2O @ 15'

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

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

CT
[X] RCP Cert
[X] GW Protection
[X] SW Protection
[ ] GA Mobility
[X] 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

GBD 39731

Shannon - Phoenixlabs

From: Jane Witherell [Jane.Witherell@cdrmaguire.com]
Sent: Tuesday, February 26, 2013 10:09 AM
To: Shannon - Phoenixlabs
Subject: RE: Middletown Pump Station

Okay.

Thanks!

CDR Maguire Logo for E-mail Signature

JANE WITHERELL, PE, LEP, CHMM
Principal Engineer

2080 Silas Deane Highway
Rocky Hill, CT 06067
P: 860.563.3158 Ext. 3012
F: 860.563.3188
Jane.Witherell@CDRMaguire.com
www.CDRMaguire.com

From: Shannon - Phoenixlabs [mailto:shannon@phoenixlabs.com]
Sent: Tuesday, February 26, 2013 9:51 AM
To: Jane Witherell
Subject: RE: Middletown Pump Station

We can only do ETPH & PAH's.

From: Jane Witherell [mailto:Jane.Witherell@cdrmaguire.com]
Sent: Tuesday, February 26, 2013 09:32 AM
To: Shannon - Phoenixlabs
Subject: RE: Middletown Pump Station

Shannon,

Please run it for ETPH, PAHs and total metals if possible.

Thanks,
Jane

CDR Maguire Logo for E-mail Signature

JANE WITHERELL, PE, LEP, CHMM

Principal Engineer

2080 Silas Deane Highway
Rocky Hill, CT 06067
P: 860.563.3158 Ext. 3012
F: 860.563.3188
Jane.Witherell@CDRMaguire.com
www.CDRMaguire.com

From: Shannon - Phoenixlabs [mailto:shannon@phoenixlabs.com]
Sent: Monday, February 25, 2013 4:42 PM
To: Jane Witherell
Subject: FW: Middletown Pump Station

From: Shannon - Phoenixlabs [mailto:shannon@phoenixlabs.com]
Sent: Monday, February 25, 2013 04:40 PM
To: janewitherell@cdrmaguire.com
Subject: Middletown Pump Station

Jane,
We received your samples today and on your sample id MW-6, only 1 amber and 3 voa vials were submitted. We cannot do all of the analysis you requested. Please let me know what you want analyzed. Thank you.

Shannon Wilhelm
Phoenix Environmental Labs

PHOENIX
Environmental Laboratories, Inc.

Wednesday, March 06, 2013

Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Project ID: MIDDLETOWN PUMP STATION
Sample ID#s: BD37825 - BD37831

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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

Analysis Report

March 06, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/20/13	9:55
Location Code:	MAGUIRE	Received by:	LB	02/20/13	12:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD37825
Phoenix ID: BD37825

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-01

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	02/21/13	EK	SW6010
Arsenic	1.6	0.7	mg/Kg	02/21/13	LK	SW6010
Barium	50.8	0.36	mg/Kg	02/21/13	LK	SW6010
Cadmium	< 0.36	0.36	mg/Kg	02/21/13	EK	SW6010
Chromium	16.1	0.36	mg/Kg	02/21/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/21/13	RS	SW-7471
Lead	7.47	0.36	mg/Kg	02/21/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	02/21/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/21/13	EK	SW6010
SPLP Barium	0.065	0.010	mg/L	02/21/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/21/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/21/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/21/13	EK	SW6010
SPLP Metals Digestion	Completed			02/21/13	X/X	SW846-3005
Percent Solid	92		%	02/20/13	JL	E160.3
Soil Extraction for PCB	Completed			02/20/13	PB/V	SW3545
Soil Extraction SVOA BN	Completed			02/20/13	PJ/V	SW3545
Extraction of CT ETPH	Completed			02/20/13	PJ/V	3545
Mercury Digestion	Completed			02/21/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/21/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/20/13	X	EPA 1312
Total Metals Digest	Completed			02/20/13	AG	SW846 - 3050
Field Extraction	Completed			02/20/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/21/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-01

Phoenix I.D.: BD37825

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/21/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	64		%	02/21/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	02/21/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	02/21/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	02/21/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	02/21/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	02/21/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	02/21/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	02/21/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	02/21/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	02/21/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	88		%	02/21/13	AW	30 - 150 %
% TCMX	82		%	02/21/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,1,1-Trichloroethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.2	ug/Kg	02/20/13	H/J	SW8260
1,1,2-Trichloroethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloroethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloroethene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloropropene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2,3-Trichloropropane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dibromoethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichlorobenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichloroethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichloropropane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,3-Dichlorobenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,3-Dichloropropane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
1,4-Dichlorobenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
2,2-Dichloropropane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
2-Chlorotoluene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
2-Hexanone	ND	18	ug/Kg	02/20/13	H/J	SW8260
2-Isopropyltoluene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
4-Chlorotoluene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
4-Methyl-2-pentanone	ND	18	ug/Kg	02/20/13	H/J	SW8260
Acetone	ND	74	ug/Kg	02/20/13	H/J	SW8260
Acrylonitrile	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Benzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Bromobenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Bromochloromethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-01

Phoenix I.D.: BD37825

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Bromoform	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Bromomethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Carbon Disulfide	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Carbon tetrachloride	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Chlorobenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Chloroethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Chloroform	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Chloromethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Dibromochloromethane	ND	2.2	ug/Kg	02/20/13	H/J	SW8260
Dibromomethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Dichlorodifluoromethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Ethylbenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Hexachlorobutadiene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Isopropylbenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
m&p-Xylene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Methyl Ethyl Ketone	ND	22	ug/Kg	02/20/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	7.4	ug/Kg	02/20/13	H/J	SW8260
Methylene chloride	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Naphthalene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
n-Butylbenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
n-Propylbenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
o-Xylene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
p-Isopropyltoluene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
sec-Butylbenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Styrene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
tert-Butylbenzene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Tetrachloroethene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	7.4	ug/Kg	02/20/13	H/J	SW8260
Toluene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Total Xylenes	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	7.4	ug/Kg	02/20/13	H/J	SW8260
Trichloroethene	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Trichlorofluoromethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Trichlorotrifluoroethane	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
Vinyl chloride	ND	3.7	ug/Kg	02/20/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	02/20/13	H/J	70 - 130 %
% Bromofluorobenzene	92		%	02/20/13	H/J	70 - 130 %
% Dibromofluoromethane	99		%	02/20/13	H/J	70 - 130 %
% Toluene-d8	96		%	02/20/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	02/20/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-01

Phoenix I.D.: BD37825

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Chrysene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Naphthalene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	02/20/13	DD	SW 8270
Pyrene	ND	250	ug/Kg	02/20/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	86		%	02/20/13	DD	30 - 130 %
% Nitrobenzene-d5	72		%	02/20/13	DD	30 - 130 %
% Terphenyl-d14	115		%	02/20/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
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

March 06, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/20/13	8:15
Location Code:	MAGUIRE	Received by:	LB	02/20/13	12:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD37825
Phoenix ID: BD37826

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-07

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	02/21/13	EK	SW6010
Arsenic	2.3	0.8	mg/Kg	02/21/13	LK	SW6010
Barium	66.0	0.42	mg/Kg	02/21/13	LK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	02/21/13	EK	SW6010
Chromium	16.8	0.42	mg/Kg	02/21/13	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	02/21/13	RS	SW-7471
Lead	9.19	0.42	mg/Kg	02/21/13	LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	02/21/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/21/13	EK	SW6010
SPLP Barium	0.070	0.010	mg/L	02/21/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/21/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/21/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/21/13	EK	SW6010
SPLP Metals Digestion	Completed			02/21/13	X/X	SW846-3005
Percent Solid	84		%	02/20/13	JL	E160.3
Soil Extraction for PCB	Completed			02/20/13	PB/V	SW3545
Soil Extraction SVOA BN	Completed			02/20/13	PJ/V	SW3545
Extraction of CT ETPH	Completed			02/20/13	PJ/V	3545
Mercury Digestion	Completed			02/21/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/21/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/20/13	X	EPA 1312
Total Metals Digest	Completed			02/20/13	AG	SW846 - 3050
Field Extraction	Completed			02/20/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	12	mg/Kg	02/21/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-07

Phoenix I.D.: BD37826

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/21/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	79		%	02/21/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	390	ug/Kg	02/21/13	AW	SW 8082
PCB-1221	ND	390	ug/Kg	02/21/13	AW	SW 8082
PCB-1232	ND	390	ug/Kg	02/21/13	AW	SW 8082
PCB-1242	ND	390	ug/Kg	02/21/13	AW	SW 8082
PCB-1248	ND	390	ug/Kg	02/21/13	AW	SW 8082
PCB-1254	ND	390	ug/Kg	02/21/13	AW	SW 8082
PCB-1260	ND	390	ug/Kg	02/21/13	AW	SW 8082
PCB-1262	ND	390	ug/Kg	02/21/13	AW	SW 8082
PCB-1268	ND	390	ug/Kg	02/21/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	98		%	02/21/13	AW	30 - 150 %
% TCMX	91		%	02/21/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	02/20/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloroethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloroethene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloropropene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dibromoethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichloroethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichloropropane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,3-Dichloropropane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
2,2-Dichloropropane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
2-Chlorotoluene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	02/20/13	H/J	SW8260
2-Isopropyltoluene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
4-Chlorotoluene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	02/20/13	H/J	SW8260
Acetone	ND	110	ug/Kg	02/20/13	H/J	SW8260
Acrylonitrile	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Benzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Bromobenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Bromochloromethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-07

Phoenix I.D.: BD37826

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Bromoform	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Bromomethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Carbon Disulfide	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Carbon tetrachloride	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Chlorobenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Chloroethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Chloroform	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Chloromethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	02/20/13	H/J	SW8260
Dibromomethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Ethylbenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Hexachlorobutadiene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Isopropylbenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
m&p-Xylene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	02/20/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	02/20/13	H/J	SW8260
Methylene chloride	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Naphthalene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
n-Butylbenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
n-Propylbenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
o-Xylene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
p-Isopropyltoluene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
sec-Butylbenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Styrene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
tert-Butylbenzene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Tetrachloroethene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	02/20/13	H/J	SW8260
Toluene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Total Xylenes	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	02/20/13	H/J	SW8260
Trichloroethene	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Trichlorofluoromethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
Vinyl chloride	ND	5.7	ug/Kg	02/20/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	97		%	02/20/13	H/J	70 - 130 %
% Bromofluorobenzene	90		%	02/20/13	H/J	70 - 130 %
% Dibromofluoromethane	104		%	02/20/13	H/J	70 - 130 %
% Toluene-d8	94		%	02/20/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	02/21/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-07

Phoenix I.D.: BD37826

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Benz(a)anthracene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Benzo(a)pyrene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Benzo(b)fluoranthene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Chrysene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Fluoranthene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Fluorene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Naphthalene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Phenanthrene	ND	280	ug/Kg	02/21/13	DD	SW 8270
Pyrene	ND	280	ug/Kg	02/21/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	82		%	02/21/13	DD	30 - 130 %
% Nitrobenzene-d5	73		%	02/21/13	DD	30 - 130 %
% Terphenyl-d14	111		%	02/21/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 06, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/20/13	8:50
Location Code:	MAGUIRE	Received by:	LB	02/20/13	12:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD37825
Phoenix ID: BD37827

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-37

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	2.87	0.39	mg/Kg	02/21/13	LK	SW6010
Arsenic	5.6	0.8	mg/Kg	02/21/13	LK	SW6010
Barium	149	0.39	mg/Kg	02/21/13	LK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	02/21/13	EK	SW6010
Chromium	15.8	0.39	mg/Kg	02/21/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	02/21/13	RS	SW-7471
Lead	63.2	0.39	mg/Kg	02/21/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	02/21/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	02/21/13	EK	SW6010
SPLP Barium	0.065	0.010	mg/L	02/21/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/21/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/21/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/21/13	EK	SW6010
SPLP Metals Digestion	Completed			02/21/13	X/X	SW846-3005
Percent Solid	87		%	02/20/13	JL	E160.3
Soil Extraction for PCB	Completed			02/20/13	PB/V	SW3545
Soil Extraction SVOA BN	Completed			02/20/13	PJ/V	SW3545
Extraction of CT ETPH	Completed			02/20/13	SS/V	3545
Mercury Digestion	Completed			02/21/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/21/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/20/13	X	EPA 1312
Total Metals Digest	Completed			02/20/13	AG	SW846 - 3050
Field Extraction	Completed			02/20/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	02/21/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-37

Phoenix I.D.: BD37827

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	02/21/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	84		%	02/21/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	02/21/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	02/21/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	02/21/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	02/21/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	02/21/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	02/21/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	02/21/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	02/21/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	02/21/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	86		%	02/21/13	AW	30 - 150 %
% TCMX	88		%	02/21/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	02/20/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2-Dibromoethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	02/20/13	H/J	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
4-Chlorotoluene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	02/20/13	H/J	SW8260
Acetone	ND	110	ug/Kg	02/20/13	H/J	SW8260
Acrylonitrile	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Benzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Bromobenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Bromochloromethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-37

Phoenix I.D.: BD37827

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Bromoform	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Bromomethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Chlorobenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Chloroethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Chloroform	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Chloromethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	02/20/13	H/J	SW8260
Dibromomethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Ethylbenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
m&p-Xylene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	02/20/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	02/20/13	H/J	SW8260
Methylene chloride	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Naphthalene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
o-Xylene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Styrene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Tetrachloroethene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	02/20/13	H/J	SW8260
Toluene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Total Xylenes	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	02/20/13	H/J	SW8260
Trichloroethene	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
Vinyl chloride	ND	5.5	ug/Kg	02/20/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	02/20/13	H/J	70 - 130 %
% Bromofluorobenzene	91		%	02/20/13	H/J	70 - 130 %
% Dibromofluoromethane	97		%	02/20/13	H/J	70 - 130 %
% Toluene-d8	97		%	02/20/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	02/21/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-37

Phoenix I.D.: BD37827

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Benzo(b)fluoranthene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Fluoranthene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Phenanthrene	ND	260	ug/Kg	02/21/13	DD	SW 8270
Pyrene	ND	260	ug/Kg	02/21/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	84		%	02/21/13	DD	30 - 130 %
% Nitrobenzene-d5	73		%	02/21/13	DD	30 - 130 %
% Terphenyl-d14	112		%	02/21/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 06, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/20/13	9:15
Location Code:	MAGUIRE	Received by:	LB	02/20/13	12:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD37825
Phoenix ID: BD37828

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-38

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	24.7	0.48	mg/Kg	02/21/13	LK	SW6010
Arsenic	5.0	1.0	mg/Kg	02/21/13	LK	SW6010
Barium	238	0.48	mg/Kg	02/21/13	LK	SW6010
Cadmium	11.2	0.48	mg/Kg	02/21/13	LK	SW6010
Chromium	34.2	0.48	mg/Kg	02/21/13	LK	SW6010
Mercury	2.41	0.10	mg/Kg	02/21/13	RS	SW-7471
Lead	467	4.8	mg/Kg	02/21/13	LK	SW6010
Selenium	< 1.9	1.9	mg/Kg	02/21/13	EK	SW6010
SPLP Silver	< 0.020	0.020	mg/L	02/21/13	EK	SW6010
SPLP Arsenic	0.005	0.004	mg/L	02/21/13	LK	SW6010
SPLP Barium	0.143	0.010	mg/L	02/21/13	EK	SW6010
SPLP Cadmium	0.006	0.005	mg/L	02/21/13	LK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Mercury	0.0012	0.0004	mg/L	02/21/13	RS	1312/SW7470
SPLP Lead	0.154	0.010	mg/L	02/21/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/21/13	EK	SW6010
SPLP Metals Digestion	Completed			02/21/13	X/X	SW846-3005
Percent Solid	68		%	02/20/13	JL	E160.3
Soil Extraction for PCB	Completed			02/20/13	PB/V	SW3545
Soil Extraction SVOA BN	Completed			02/20/13	PJ/V	SW3545
Extraction of CT ETPH	Completed			02/20/13	PJ/V	3545
Mercury Digestion	Completed			02/21/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/21/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/20/13	X	EPA 1312
Total Metals Digest	Completed			02/20/13	AG	SW846 - 3050
Field Extraction	Completed			02/20/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	2800	72	mg/Kg	02/21/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-38

Phoenix I.D.: BD37828

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	02/21/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	Diluted Out		%	02/21/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	480	ug/Kg	02/21/13	AW	SW 8082
PCB-1221	ND	480	ug/Kg	02/21/13	AW	SW 8082
PCB-1232	ND	480	ug/Kg	02/21/13	AW	SW 8082
PCB-1242	ND	480	ug/Kg	02/21/13	AW	SW 8082
PCB-1248	ND	480	ug/Kg	02/21/13	AW	SW 8082
PCB-1254	ND	480	ug/Kg	02/21/13	AW	SW 8082
PCB-1260	ND	480	ug/Kg	02/21/13	AW	SW 8082
PCB-1262	ND	480	ug/Kg	02/21/13	AW	SW 8082
PCB-1268	ND	480	ug/Kg	02/21/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	91		%	02/21/13	AW	30 - 150 %
% TCMX	81		%	02/21/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,1,1-Trichloroethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	100	ug/Kg	02/21/13	R/J	SW8260
1,1,2-Trichloroethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,1-Dichloroethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,1-Dichloroethene	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,1-Dichloropropene	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,2,3-Trichloropropane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,2,4-Trimethylbenzene	4800	180	ug/Kg	02/21/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,2-Dibromoethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,2-Dichlorobenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,2-Dichloroethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,2-Dichloropropane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,3,5-Trimethylbenzene	1800	180	ug/Kg	02/21/13	R/J	SW8260
1,3-Dichlorobenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,3-Dichloropropane	ND	180	ug/Kg	02/21/13	R/J	SW8260
1,4-Dichlorobenzene	300	180	ug/Kg	02/21/13	R/J	SW8260
2,2-Dichloropropane	ND	180	ug/Kg	02/21/13	R/J	SW8260
2-Chlorotoluene	ND	180	ug/Kg	02/21/13	R/J	SW8260
2-Hexanone	ND	880	ug/Kg	02/21/13	R/J	SW8260
2-Isopropyltoluene	240	180	ug/Kg	02/21/13	R/J	SW8260
4-Chlorotoluene	ND	180	ug/Kg	02/21/13	R/J	SW8260
4-Methyl-2-pentanone	ND	880	ug/Kg	02/21/13	R/J	SW8260
Acetone	ND	3500	ug/Kg	02/21/13	R/J	SW8260
Acrylonitrile	ND	180	ug/Kg	02/21/13	R/J	SW8260
Benzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Bromobenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Bromochloromethane	ND	180	ug/Kg	02/21/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-38

Phoenix I.D.: BD37828

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
Bromoform	ND	180	ug/Kg	02/21/13	R/J	SW8260
Bromomethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
Carbon Disulfide	ND	180	ug/Kg	02/21/13	R/J	SW8260
Carbon tetrachloride	ND	180	ug/Kg	02/21/13	R/J	SW8260
Chlorobenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Chloroethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
Chloroform	ND	180	ug/Kg	02/21/13	R/J	SW8260
Chloromethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	180	ug/Kg	02/21/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Dibromochloromethane	ND	100	ug/Kg	02/21/13	R/J	SW8260
Dibromomethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
Dichlorodifluoromethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
Ethylbenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Hexachlorobutadiene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Isopropylbenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
m&p-Xylene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Methyl Ethyl Ketone	ND	1100	ug/Kg	02/21/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	350	ug/Kg	02/21/13	R/J	SW8260
Methylene chloride	ND	180	ug/Kg	02/21/13	R/J	SW8260
Naphthalene	910	180	ug/Kg	02/21/13	R/J	SW8260
n-Butylbenzene	1100	180	ug/Kg	02/21/13	R/J	SW8260
n-Propylbenzene	320	180	ug/Kg	02/21/13	R/J	SW8260
o-Xylene	ND	180	ug/Kg	02/21/13	R/J	SW8260
p-Isopropyltoluene	670	180	ug/Kg	02/21/13	R/J	SW8260
sec-Butylbenzene	700	180	ug/Kg	02/21/13	R/J	SW8260
Styrene	ND	180	ug/Kg	02/21/13	R/J	SW8260
tert-Butylbenzene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Tetrachloroethene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	350	ug/Kg	02/21/13	R/J	SW8260
Toluene	380	180	ug/Kg	02/21/13	R/J	SW8260
Total Xylenes	ND	180	ug/Kg	02/21/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	180	ug/Kg	02/21/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	180	ug/Kg	02/21/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	350	ug/Kg	02/21/13	R/J	SW8260
Trichloroethene	ND	180	ug/Kg	02/21/13	R/J	SW8260
Trichlorofluoromethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
Trichlorotrifluoroethane	ND	180	ug/Kg	02/21/13	R/J	SW8260
Vinyl chloride	ND	180	ug/Kg	02/21/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	02/21/13	R/J	70 - 130 %
% Bromofluorobenzene	128		%	02/21/13	R/J	70 - 130 %
% Dibromofluoromethane	98		%	02/21/13	R/J	70 - 130 %
% Toluene-d8	99		%	02/21/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Acenaphthene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Acenaphthylene	ND	670	ug/Kg	02/21/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-38

Phoenix I.D.: BD37828

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Benz(a)anthracene	1600	670	ug/Kg	02/21/13	DD	SW 8270
Benzo(a)pyrene	1700	670	ug/Kg	02/21/13	DD	SW 8270
Benzo(b)fluoranthene	2500	670	ug/Kg	02/21/13	DD	SW 8270
Benzo(ghi)perylene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Benzo(k)fluoranthene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Chrysene	2000	670	ug/Kg	02/21/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Fluoranthene	2800	670	ug/Kg	02/21/13	DD	SW 8270
Fluorene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Naphthalene	ND	670	ug/Kg	02/21/13	DD	SW 8270
Phenanthrene	2200	670	ug/Kg	02/21/13	DD	SW 8270
Pyrene	2800	670	ug/Kg	02/21/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	81		%	02/21/13	DD	30 - 130 %
% Nitrobenzene-d5	79		%	02/21/13	DD	30 - 130 %
% Terphenyl-d14	89		%	02/21/13	DD	30 - 130 %

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

Comments:

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
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

March 06, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/20/13	10:40
Location Code:	MAGUIRE	Received by:	LB	02/20/13	12:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD37825
Phoenix ID: BD37829

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-39

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	1.44	0.38	mg/Kg	02/21/13	LK	SW6010
Arsenic	5.4	0.8	mg/Kg	02/21/13	LK	SW6010
Barium	315	0.38	mg/Kg	02/21/13	LK	SW6010
Cadmium	1.46	0.38	mg/Kg	02/21/13	LK	SW6010
Chromium	20.5	0.38	mg/Kg	02/21/13	LK	SW6010
Mercury	0.73	0.07	mg/Kg	02/21/13	RS	SW-7471
Lead	4380	38	mg/Kg	02/21/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	02/21/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Arsenic	0.005	0.004	mg/L	02/21/13	LK	SW6010
SPLP Barium	0.081	0.010	mg/L	02/21/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	02/21/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	02/21/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	02/21/13	RS	1312/SW7470
SPLP Lead	0.018	0.010	mg/L	02/21/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	02/21/13	EK	SW6010
SPLP Metals Digestion	Completed			02/21/13	X/X	SW846-3005
Percent Solid	83		%	02/20/13	JL	E160.3
Soil Extraction for PCB	Completed			02/20/13	PB/V	SW3545
Soil Extraction SVOA BN	Completed			02/20/13	PJ/V	SW3545
Extraction of CT ETPH	Completed			02/20/13	PJ/V	3545
Mercury Digestion	Completed			02/21/13	X/X	SW7471
SPLP Digestion Mercury	Completed			02/21/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/20/13	X	EPA 1312
Total Metals Digest	Completed			02/20/13	AG	SW846 - 3050
Field Extraction	Completed			02/20/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	550	59	mg/Kg	02/21/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-39

Phoenix I.D.: BD37829

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	02/21/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	Diluted Out		%	02/21/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	400	ug/Kg	02/21/13	AW	SW 8082
PCB-1221	ND	400	ug/Kg	02/21/13	AW	SW 8082
PCB-1232	ND	400	ug/Kg	02/21/13	AW	SW 8082
PCB-1242	ND	400	ug/Kg	02/21/13	AW	SW 8082
PCB-1248	ND	400	ug/Kg	02/21/13	AW	SW 8082
PCB-1254	ND	400	ug/Kg	02/21/13	AW	SW 8082
PCB-1260	ND	400	ug/Kg	02/21/13	AW	SW 8082
PCB-1262	ND	400	ug/Kg	02/21/13	AW	SW 8082
PCB-1268	ND	400	ug/Kg	02/21/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	80		%	02/21/13	AW	30 - 150 %
% TCMX	78		%	02/21/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,1,1-Trichloroethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	02/22/13	H/J	SW8260
1,1,2-Trichloroethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,1-Dichloroethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,1-Dichloroethene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,1-Dichloropropene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2,3-Trichloropropane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2-Dibromoethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2-Dichlorobenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2-Dichloroethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,2-Dichloropropane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,3-Dichlorobenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,3-Dichloropropane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
1,4-Dichlorobenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
2,2-Dichloropropane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
2-Chlorotoluene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
2-Hexanone	ND	32	ug/Kg	02/22/13	H/J	SW8260
2-Isopropyltoluene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
4-Chlorotoluene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	02/22/13	H/J	SW8260
Acetone	ND	140	ug/Kg	02/22/13	H/J	SW8260
Acrylonitrile	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Benzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Bromobenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Bromochloromethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-39

Phoenix I.D.: BD37829

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Bromoform	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Bromomethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Carbon Disulfide	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Carbon tetrachloride	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Chlorobenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Chloroethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Chloroform	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Chloromethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Dibromochloromethane	ND	3.8	ug/Kg	02/22/13	H/J	SW8260
Dibromomethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Dichlorodifluoromethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Ethylbenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Hexachlorobutadiene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Isopropylbenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
m&p-Xylene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Methyl Ethyl Ketone	ND	75	ug/Kg	02/22/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	02/22/13	H/J	SW8260
Methylene chloride	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Naphthalene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
n-Butylbenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
n-Propylbenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
o-Xylene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
p-Isopropyltoluene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
sec-Butylbenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Styrene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
tert-Butylbenzene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Tetrachloroethene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	02/22/13	H/J	SW8260
Toluene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Total Xylenes	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	02/22/13	H/J	SW8260
Trichloroethene	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Trichlorofluoromethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Trichlorotrifluoroethane	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
Vinyl chloride	ND	6.4	ug/Kg	02/22/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	94		%	02/22/13	H/J	70 - 130 %
% Bromofluorobenzene	82		%	02/22/13	H/J	70 - 130 %
% Dibromofluoromethane	114		%	02/22/13	H/J	70 - 130 %
% Toluene-d8	86		%	02/22/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	560	ug/Kg	02/21/13	DD	SW 8270
Acenaphthene	ND	560	ug/Kg	02/21/13	DD	SW 8270
Acenaphthylene	ND	560	ug/Kg	02/21/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-39

Phoenix I.D.: BD37829

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	560	ug/Kg	02/21/13	DD	SW 8270
Benz(a)anthracene	1600	560	ug/Kg	02/21/13	DD	SW 8270
Benzo(a)pyrene	1800	560	ug/Kg	02/21/13	DD	SW 8270
Benzo(b)fluoranthene	2800	560	ug/Kg	02/21/13	DD	SW 8270
Benzo(ghi)perylene	730	560	ug/Kg	02/21/13	DD	SW 8270
Benzo(k)fluoranthene	790	560	ug/Kg	02/21/13	DD	SW 8270
Chrysene	2300	560	ug/Kg	02/21/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	560	ug/Kg	02/21/13	DD	SW 8270
Fluoranthene	2700	560	ug/Kg	02/21/13	DD	SW 8270
Fluorene	ND	560	ug/Kg	02/21/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	690	560	ug/Kg	02/21/13	DD	SW 8270
Naphthalene	ND	560	ug/Kg	02/21/13	DD	SW 8270
Phenanthrene	1300	560	ug/Kg	02/21/13	DD	SW 8270
Pyrene	3000	560	ug/Kg	02/21/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	73		%	02/21/13	DD	30 - 130 %
% Nitrobenzene-d5	78		%	02/21/13	DD	30 - 130 %
% Terphenyl-d14	77		%	02/21/13	DD	30 - 130 %

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

Comments:

* Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, an elevated RL was reported for the semivolatile analysis.

**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.

**Poor IS recovery was observed for volatiles due to matrix interference. Sample was analyzed twice with similar results.

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
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

March 06, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/20/13	0:00
Location Code:	MAGUIRE	Received by:	LB	02/20/13	12:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD37825
Phoenix ID: BD37830

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK HIGH

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%			E160.3
Field Extraction	Completed			02/20/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	02/21/13	H/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	02/21/13	H/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	02/21/13	H/J	SW8260
2-Hexanone	ND	1300	ug/Kg	02/21/13	H/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	02/21/13	H/J	SW8260
4-Chlorotoluene	ND	250	ug/Kg	02/21/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK HIGH

Phoenix I.D.: BD37830

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	02/21/13	H/J	SW8260
Acetone	ND	5000	ug/Kg	02/21/13	H/J	SW8260
Acrylonitrile	ND	250	ug/Kg	02/21/13	H/J	SW8260
Benzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Bromobenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Bromochloromethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Bromoform	ND	250	ug/Kg	02/21/13	H/J	SW8260
Bromomethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	02/21/13	H/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	02/21/13	H/J	SW8260
Chlorobenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Chloroethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Chloroform	ND	250	ug/Kg	02/21/13	H/J	SW8260
Chloromethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	02/21/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Dibromomethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Ethylbenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
m&p-Xylene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	02/21/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	02/21/13	H/J	SW8260
Methylene chloride	ND	500	ug/Kg	02/21/13	H/J	SW8260
Naphthalene	ND	250	ug/Kg	02/21/13	H/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
o-Xylene	ND	250	ug/Kg	02/21/13	H/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	02/21/13	H/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Styrene	ND	250	ug/Kg	02/21/13	H/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	02/21/13	H/J	SW8260
Toluene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Total Xylenes	ND	250	ug/Kg	02/21/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	02/21/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	02/21/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	02/21/13	H/J	SW8260
Trichloroethene	ND	250	ug/Kg	02/21/13	H/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	02/21/13	H/J	SW8260
Vinyl chloride	ND	250	ug/Kg	02/21/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	02/21/13	H/J	70 - 130 %
% Bromofluorobenzene	95		%	02/21/13	H/J	70 - 130 %
% Dibromofluoromethane	92		%	02/21/13	H/J	70 - 130 %

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK HIGH

Phoenix I.D.: BD37830

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	99		%	02/21/13	H/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
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

March 06, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/20/13	0:00
Location Code:	MAGUIRE	Received by:	LB	02/20/13	12:13
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02				

Laboratory Data

SDG ID: GBD37825
Phoenix ID: BD37831

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK LOW

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%			E160.3
Field Extraction	Completed			02/20/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	02/21/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
2-Hexanone	ND	25	ug/Kg	02/21/13	H/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK LOW

Phoenix I.D.: BD37831

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	02/21/13	H/J	SW8260
Acetone	ND	100	ug/Kg	02/21/13	H/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Benzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Bromoform	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Bromomethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Chloroethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Chloroform	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Chloromethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	02/21/13	H/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	02/21/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	02/21/13	H/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Naphthalene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
o-Xylene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Styrene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	02/21/13	H/J	SW8260
Toluene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	02/21/13	H/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	02/21/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	97		%	02/21/13	H/J	70 - 130 %
% Bromofluorobenzene	93		%	02/21/13	H/J	70 - 130 %
% Dibromofluoromethane	101		%	02/21/13	H/J	70 - 130 %

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK LOW

Phoenix I.D.: BD37831

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	95		%	02/21/13	H/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED 100% SOLID ASSUMED

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

QA/QC Report

March 06, 2013

QA/QC Data

SDG I.D.: GBD37825

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 221669, QC Sample No: BD37822 (BD37825, BD37826, BD37827, BD37828, BD37829)													
ICP Metals - Soil													
Arsenic	BRL	0.8	1.01	NC	98.9	101	2.1	101	101	0.0	75 - 125	30	
Barium	BRL	13.2	18.2	31.8	99.9	102	2.1	94.5	94.2	0.3	75 - 125	30	r
Cadmium	BRL	<0.38	<0.39	NC	99.3	103	3.7	102	103	1.0	75 - 125	30	
Chromium	BRL	8.18	9.39	13.8	101	103	2.0	105	106	0.9	75 - 125	30	
Lead	BRL	9.73	7.77	22.4	98.9	101	2.1	103	103	0.0	75 - 125	30	
Selenium	BRL	<1.5	<1.5	NC	115	119	3.4	97.6	97.0	0.6	75 - 125	30	
Silver	BRL	<0.38	<0.39	NC	101	102	1.0	104	104	0.0	75 - 125	30	
QA/QC Batch 221711, QC Sample No: BD37825 (BD37825, BD37826, BD37827, BD37828, BD37829)													
Mercury - Soil	BRL	<0.07	<0.06	NC	95.4	90.0	5.8	94.0	86.9	7.8	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 221714, QC Sample No: BD37829 (BD37825, BD37826, BD37827, BD37828, BD37829)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.005	0.004	NC	100	96.6	3.5	103	105	1.9	75 - 125	20	
Barium	BRL	0.081	0.079	2.50	103	98.5	4.5	105	107	1.9	75 - 125	20	
Cadmium	BRL	<0.005	<0.005	NC	105	102	2.9	107	109	1.9	75 - 125	20	
Chromium	BRL	<0.010	<0.010	NC	102	97.5	4.5	103	105	1.9	75 - 125	20	
Lead	BRL	0.018	0.019	NC	101	97.8	3.2	104	105	1.0	75 - 125	20	
Selenium	BRL	<0.020	<0.020	NC	101	98.2	2.8	104	106	1.9	75 - 125	20	
Silver	BRL	<0.010	<0.010	NC	98.4	94.8	3.7	101	102	1.0	75 - 125	20	
QA/QC Batch 221713, QC Sample No: BD38135 (BD37825, BD37826, BD37827, BD37828, BD37829)													
Mercury - Water	BRL	<0.0002	<0.0002	NC	94.4	93.3	1.2	94.6	92.8	1.9	70 - 130	20	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													

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

PHOENIX

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

QA/QC Report

March 06, 2013

QA/QC Data

SDG I.D.: GBD37825

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 221578, QC Sample No: BD37434 (BD37825, BD37826, BD37827, BD37828, BD37829)									
Polychlorinated Biphenyls - Soil									
PCB-1016	ND	88	85	3.5	87	86	1.2	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	88	85	3.5	80	79	1.3	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	33	74	72	2.7	66	72	8.7	30 - 150	30
% TCMX (Surrogate Rec)	48	86	84	2.4	78	82	5.0	30 - 150	30
QA/QC Batch 221579, QC Sample No: BD37555 (BD37825, BD37826, BD37827, BD37828, BD37829)									
Polynuclear Aromatic HC - Soil									
2-Methylnaphthalene	ND	76	80	5.1	78	79	1.3	30 - 130	30
Acenaphthene	ND	73	76	4.0	77	77	0.0	30 - 130	30
Acenaphthylene	ND	77	80	3.8	80	80	0.0	30 - 130	30
Anthracene	ND	78	83	6.2	82	84	2.4	30 - 130	30
Benz(a)anthracene	ND	77	81	5.1	81	83	2.4	30 - 130	30
Benzo(a)pyrene	ND	73	75	2.7	75	79	5.2	30 - 130	30
Benzo(b)fluoranthene	ND	78	80	2.5	84	90	6.9	30 - 130	30
Benzo(ghi)perylene	ND	90	93	3.3	94	97	3.1	30 - 130	30
Benzo(k)fluoranthene	ND	78	82	5.0	80	80	0.0	30 - 130	30
Chrysene	ND	79	83	4.9	84	86	2.4	30 - 130	30
Dibenz(a,h)anthracene	ND	87	89	2.3	89	92	3.3	30 - 130	30
Fluoranthene	ND	77	81	5.1	81	83	2.4	30 - 130	30
Fluorene	ND	77	80	3.8	80	81	1.2	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	89	91	2.2	92	95	3.2	30 - 130	30
Naphthalene	ND	75	79	5.2	77	77	0.0	30 - 130	30
Phenanthrene	ND	80	83	3.7	82	84	2.4	30 - 130	30
Pyrene	ND	76	80	5.1	80	82	2.5	30 - 130	30
% 2-Fluorobiphenyl	75	77	78	1.3	78	79	1.3	30 - 130	30
% Nitrobenzene-d5	68	67	69	2.9	69	69	0.0	30 - 130	30
% Terphenyl-d14	83	81	84	3.6	85	86	1.2	30 - 130	30
QA/QC Batch 221666, QC Sample No: BD37704 (BD37825, BD37826, BD37827, BD37828, BD37829)									
TPH by GC (Extractable Products) - Soil									
Ext. Petroleum HC	ND	68	56	19.4	84	81	3.6	60 - 120	30
% n-Pentacosane	76	77	64	18.4	100	98	2.0	50 - 150	30
QA/QC Batch 222046, QC Sample No: BD38199 (BD37828 (25X))									
Volatiles - Soil									
1,1,1,2-Tetrachloroethane	ND	108	117	8.0	98	100	2.0	70 - 130	30

QA/QC Data

SDG I.D.: GBD37825

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1-Trichloroethane	ND	106	112	5.5	95	95	0.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	94	99	5.2	85	84	1.2	70 - 130	30	
1,1,2-Trichloroethane	ND	104	109	4.7	94	89	5.5	70 - 130	30	
1,1-Dichloroethane	ND	113	108	4.5	100	88	12.8	70 - 130	30	
1,1-Dichloroethene	ND	106	106	0.0	95	94	1.1	70 - 130	30	
1,1-Dichloropropene	ND	107	114	6.3	107	108	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	111	108	2.7	108	99	8.7	70 - 130	30	
1,2,3-Trichloropropane	ND	97	111	13.5	78	95	19.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	109	110	0.9	112	105	6.5	70 - 130	30	
1,2,4-Trimethylbenzene	ND	105	113	7.3	98	101	3.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	101	108	6.7	91	89	2.2	70 - 130	30	
1,2-Dibromoethane	ND	102	105	2.9	94	88	6.6	70 - 130	30	
1,2-Dichlorobenzene	ND	103	109	5.7	98	98	0.0	70 - 130	30	
1,2-Dichloroethane	ND	104	109	4.7	98	94	4.2	70 - 130	30	
1,2-Dichloropropane	ND	106	112	5.5	101	97	4.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	104	112	7.4	102	106	3.8	70 - 130	30	
1,3-Dichlorobenzene	ND	104	113	8.3	101	103	2.0	70 - 130	30	
1,3-Dichloropropane	ND	101	107	5.8	92	90	2.2	70 - 130	30	
1,4-Dichlorobenzene	ND	104	112	7.4	101	101	0.0	70 - 130	30	
2,2-Dichloropropane	ND	114	118	3.4	94	94	0.0	70 - 130	30	
2-Chlorotoluene	ND	102	110	7.5	99	102	3.0	70 - 130	30	
2-Hexanone	ND	84	85	1.2	50	48	4.1	70 - 130	30	m
2-Isopropyltoluene	ND	102	111	8.5	102	106	3.8	70 - 130	30	
4-Chlorotoluene	ND	102	110	7.5	99	102	3.0	70 - 130	30	
4-Methyl-2-pentanone	ND	95	96	1.0	83	74	11.5	70 - 130	30	
Acetone	ND	73	69	5.6	<40	<40	NC	70 - 130	30	l,m
Acrylonitrile	ND	100	92	8.3	85	73	15.2	70 - 130	30	
Benzene	ND	105	113	7.3	103	101	2.0	70 - 130	30	
Bromobenzene	ND	103	111	7.5	97	100	3.0	70 - 130	30	
Bromochloromethane	ND	102	107	4.8	92	86	6.7	70 - 130	30	
Bromodichloromethane	ND	109	114	4.5	97	94	3.1	70 - 130	30	
Bromoform	ND	108	116	7.1	91	90	1.1	70 - 130	30	
Bromomethane	ND	117	113	3.5	69	64	7.5	70 - 130	30	m
Carbon Disulfide	ND	99	100	1.0	102	100	2.0	70 - 130	30	
Carbon tetrachloride	ND	113	121	6.8	103	103	0.0	70 - 130	30	
Chlorobenzene	ND	106	113	6.4	100	103	3.0	70 - 130	30	
Chloroethane	ND	112	113	0.9	<40	<40	NC	70 - 130	30	m
Chloroform	ND	107	109	1.9	94	88	6.6	70 - 130	30	
Chloromethane	ND	106	109	2.8	95	90	5.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	106	109	2.8	94	87	7.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	104	111	6.5	97	92	5.3	70 - 130	30	
Dibromochloromethane	ND	105	113	7.3	90	90	0.0	70 - 130	30	
Dibromomethane	ND	105	109	3.7	97	89	8.6	70 - 130	30	
Dichlorodifluoromethane	ND	112	115	2.6	99	100	1.0	70 - 130	30	
Ethylbenzene	ND	103	113	9.3	103	108	4.7	70 - 130	30	
Hexachlorobutadiene	ND	111	111	0.0	129	124	4.0	70 - 130	30	
Isopropylbenzene	ND	106	116	9.0	100	107	6.8	70 - 130	30	
m&p-Xylene	ND	106	114	7.3	104	108	3.8	70 - 130	30	
Methyl ethyl ketone	ND	75	71	5.5	47	<40	NC	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	103	96	7.0	92	79	15.2	70 - 130	30	
Methylene chloride	ND	101	101	0.0	87	82	5.9	70 - 130	30	
Naphthalene	ND	112	96	15.4	96	79	19.4	70 - 130	30	
n-Butylbenzene	ND	106	112	5.5	107	109	1.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBD37825

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
n-Propylbenzene	ND	108	117	8.0	101	108	6.7	70 - 130	30	
o-Xylene	ND	109	116	6.2	103	107	3.8	70 - 130	30	
p-Isopropyltoluene	ND	105	114	8.2	104	108	3.8	70 - 130	30	
sec-Butylbenzene	ND	103	112	8.4	103	110	6.6	70 - 130	30	
Styrene	ND	108	110	1.8	104	105	1.0	70 - 130	30	
tert-Butylbenzene	ND	105	114	8.2	101	108	6.7	70 - 130	30	
Tetrachloroethene	ND	109	118	7.9	112	119	6.1	70 - 130	30	
Tetrahydrofuran (THF)	ND	93	89	4.4	77	66	15.4	70 - 130	30	m
Toluene	ND	105	113	7.3	103	101	2.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	107	111	3.7	95	92	3.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	105	110	4.7	94	89	5.5	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	103	106	2.9	79	74	6.5	70 - 130	30	
Trichloroethene	ND	111	120	7.8	105	107	1.9	70 - 130	30	
Trichlorofluoromethane	ND	112	112	0.0	<40	59	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	111	109	1.8	104	103	1.0	70 - 130	30	
Vinyl chloride	ND	108	108	0.0	94	91	3.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	100	97	3.0	98	97	1.0	70 - 130	30	
% Bromofluorobenzene	94	100	99	1.0	98	101	3.0	70 - 130	30	
% Dibromofluoromethane	99	101	99	2.0	97	95	2.1	70 - 130	30	
% Toluene-d8	101	102	101	1.0	101	99	2.0	70 - 130	30	

Comment:

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

QA/QC Batch 221775, QC Sample No: BD38241 (BD37825, BD37826, BD37827, BD37830 (50X) , BD37831)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	105	108	2.8	101	108	6.7	70 - 130	30	
1,1,1-Trichloroethane	ND	104	108	3.8	104	105	1.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	91	100	9.4	95	99	4.1	70 - 130	30	
1,1,2-Trichloroethane	ND	103	106	2.9	99	100	1.0	70 - 130	30	
1,1-Dichloroethane	ND	95	91	4.3	96	88	8.7	70 - 130	30	
1,1-Dichloroethene	ND	99	103	4.0	105	100	4.9	70 - 130	30	
1,1-Dichloropropene	ND	99	99	0.0	99	98	1.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	116	110	5.3	112	107	4.6	70 - 130	30	
1,2,3-Trichloropropane	ND	93	99	6.3	99	101	2.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	117	110	6.2	112	109	2.7	70 - 130	30	
1,2,4-Trimethylbenzene	ND	103	105	1.9	99	101	2.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	102	107	4.8	106	104	1.9	70 - 130	30	
1,2-Dibromoethane	ND	103	106	2.9	104	104	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	108	106	1.9	106	102	3.8	70 - 130	30	
1,2-Dichloroethane	ND	106	108	1.9	107	108	0.9	70 - 130	30	
1,2-Dichloropropane	ND	97	96	1.0	96	96	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	101	103	2.0	99	101	2.0	70 - 130	30	
1,3-Dichlorobenzene	ND	108	106	1.9	104	102	1.9	70 - 130	30	
1,3-Dichloropropane	ND	95	100	5.1	95	102	7.1	70 - 130	30	
1,4-Dichlorobenzene	ND	108	106	1.9	105	103	1.9	70 - 130	30	
2,2-Dichloropropane	ND	105	109	3.7	104	103	1.0	70 - 130	30	
2-Chlorotoluene	ND	101	101	0.0	100	100	0.0	70 - 130	30	
2-Hexanone	ND	97	105	7.9	99	104	4.9	70 - 130	30	
2-Isopropyltoluene	ND	100	99	1.0	101	99	2.0	70 - 130	30	
4-Chlorotoluene	ND	100	100	0.0	100	100	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	94	101	7.2	96	103	7.0	70 - 130	30	
Acetone	ND	86	102	17.0	77	85	9.9	70 - 130	30	
Acrylonitrile	ND	90	92	2.2	93	87	6.7	70 - 130	30	

QA/QC Data

SDG I.D.: GBD37825

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzene	ND	95	96	1.0	97	97	0.0	70 - 130	30
Bromobenzene	ND	104	107	2.8	103	105	1.9	70 - 130	30
Bromochloromethane	ND	99	103	4.0	98	99	1.0	70 - 130	30
Bromodichloromethane	ND	110	108	1.8	104	106	1.9	70 - 130	30
Bromoform	ND	112	120	6.9	96	107	10.8	70 - 130	30
Bromomethane	ND	97	98	1.0	97	93	4.2	70 - 130	30
Carbon Disulfide	ND	95	97	2.1	105	101	3.9	70 - 130	30
Carbon tetrachloride	ND	109	111	1.8	104	107	2.8	70 - 130	30
Chlorobenzene	ND	102	102	0.0	100	102	2.0	70 - 130	30
Chloroethane	ND	103	105	1.9	105	101	3.9	70 - 130	30
Chloroform	ND	101	104	2.9	100	100	0.0	70 - 130	30
Chloromethane	ND	94	92	2.2	93	92	1.1	70 - 130	30
cis-1,2-Dichloroethene	ND	100	104	3.9	95	99	4.1	70 - 130	30
cis-1,3-Dichloropropene	ND	99	100	1.0	98	102	4.0	70 - 130	30
Dibromochloromethane	ND	108	113	4.5	102	110	7.5	70 - 130	30
Dibromomethane	ND	105	104	1.0	102	103	1.0	70 - 130	30
Dichlorodifluoromethane	ND	109	111	1.8	104	102	1.9	70 - 130	30
Ethylbenzene	ND	100	98	2.0	99	100	1.0	70 - 130	30
Hexachlorobutadiene	ND	110	105	4.7	111	106	4.6	70 - 130	30
Isopropylbenzene	ND	101	102	1.0	97	98	1.0	70 - 130	30
m&p-Xylene	ND	100	98	2.0	99	98	1.0	70 - 130	30
Methyl ethyl ketone	ND	78	87	10.9	92	99	7.3	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	94	99	5.2	96	101	5.1	70 - 130	30
Methylene chloride	ND	95	96	1.0	93	91	2.2	70 - 130	30
Naphthalene	ND	107	108	0.9	105	104	1.0	70 - 130	30
n-Butylbenzene	ND	103	102	1.0	99	99	0.0	70 - 130	30
n-Propylbenzene	ND	105	104	1.0	101	99	2.0	70 - 130	30
o-Xylene	ND	103	104	1.0	99	100	1.0	70 - 130	30
p-Isopropyltoluene	ND	103	104	1.0	100	99	1.0	70 - 130	30
sec-Butylbenzene	ND	99	98	1.0	98	96	2.1	70 - 130	30
Styrene	ND	102	99	3.0	100	99	1.0	70 - 130	30
tert-Butylbenzene	ND	103	102	1.0	101	100	1.0	70 - 130	30
Tetrachloroethene	ND	103	104	1.0	100	105	4.9	70 - 130	30
Tetrahydrofuran (THF)	ND	88	100	12.8	92	99	7.3	70 - 130	30
Toluene	ND	99	97	2.0	101	97	4.0	70 - 130	30
trans-1,2-Dichloroethene	ND	101	106	4.8	102	102	0.0	70 - 130	30
trans-1,3-Dichloropropene	ND	103	107	3.8	104	107	2.8	70 - 130	30
trans-1,4-dichloro-2-butene	ND	90	106	16.3	90	105	15.4	70 - 130	30
Trichloroethene	ND	106	105	0.9	101	100	1.0	70 - 130	30
Trichlorofluoromethane	ND	115	116	0.9	109	106	2.8	70 - 130	30
Trichlorotrifluoroethane	ND	103	109	5.7	105	108	2.8	70 - 130	30
Vinyl chloride	ND	98	100	2.0	100	97	3.0	70 - 130	30
% 1,2-dichlorobenzene-d4	97	103	102	1.0	103	100	3.0	70 - 130	30
% Bromofluorobenzene	91	99	99	0.0	98	101	3.0	70 - 130	30
% Dibromofluoromethane	102	101	104	2.9	102	103	1.0	70 - 130	30
% Toluene-d8	95	100	97	3.0	100	98	2.0	70 - 130	30

Comment:

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

QA/QC Batch 222047, QC Sample No: BD38697 (BD37829)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	108	109	0.9	102	103	1.0	70 - 130	30
1,1,1-Trichloroethane	ND	105	102	2.9	100	105	4.9	70 - 130	30

QA/QC Data

SDG I.D.: GBD37825

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,2,2-Tetrachloroethane	ND	94	90	4.3	93	98	5.2	70 - 130	30	
1,1,2-Trichloroethane	ND	101	99	2.0	96	101	5.1	70 - 130	30	
1,1-Dichloroethane	ND	94	84	11.2	82	93	12.6	70 - 130	30	
1,1-Dichloroethene	ND	99	95	4.1	84	90	6.9	70 - 130	30	
1,1-Dichloropropene	ND	97	96	1.0	94	99	5.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	113	110	2.7	103	112	8.4	70 - 130	30	
1,2,3-Trichloropropane	ND	92	79	15.2	92	98	6.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	112	113	0.9	109	114	4.5	70 - 130	30	
1,2,4-Trimethylbenzene	ND	101	105	3.9	99	100	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	107	98	8.8	88	95	7.7	70 - 130	30	
1,2-Dibromoethane	ND	101	99	2.0	98	106	7.8	70 - 130	30	
1,2-Dichlorobenzene	ND	106	105	0.9	98	106	7.8	70 - 130	30	
1,2-Dichloroethane	ND	106	104	1.9	102	107	4.8	70 - 130	30	
1,2-Dichloropropane	ND	95	93	2.1	91	98	7.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	99	102	3.0	98	100	2.0	70 - 130	30	
1,3-Dichlorobenzene	ND	106	106	0.0	100	106	5.8	70 - 130	30	
1,3-Dichloropropane	ND	95	97	2.1	95	92	3.2	70 - 130	30	
1,4-Dichlorobenzene	ND	106	107	0.9	99	106	6.8	70 - 130	30	
2,2-Dichloropropane	ND	106	104	1.9	97	100	3.0	70 - 130	30	
2-Chlorotoluene	ND	98	98	0.0	98	102	4.0	70 - 130	30	
2-Hexanone	ND	80	77	3.8	62	62	0.0	70 - 130	30	m
2-Isopropyltoluene	ND	98	97	1.0	93	99	6.3	70 - 130	30	
4-Chlorotoluene	ND	99	99	0.0	98	102	4.0	70 - 130	30	
4-Methyl-2-pentanone	ND	90	88	2.2	86	94	8.9	70 - 130	30	
Acetone	ND	68	70	2.9	<40	<40	NC	70 - 130	30	l,m
Acrylonitrile	ND	92	77	17.8	79	94	17.3	70 - 130	30	
Benzene	ND	93	93	0.0	91	97	6.4	70 - 130	30	
Bromobenzene	ND	103	104	1.0	101	104	2.9	70 - 130	30	
Bromochloromethane	ND	99	97	2.0	94	98	4.2	70 - 130	30	
Bromodichloromethane	ND	110	107	2.8	100	105	4.9	70 - 130	30	
Bromoform	ND	120	118	1.7	95	98	3.1	70 - 130	30	
Bromomethane	ND	97	98	1.0	60	62	3.3	70 - 130	30	m
Carbon Disulfide	ND	94	89	5.5	79	87	9.6	70 - 130	30	
Carbon tetrachloride	ND	112	109	2.7	100	106	5.8	70 - 130	30	
Chlorobenzene	ND	101	101	0.0	99	102	3.0	70 - 130	30	
Chloroethane	ND	103	97	6.0	<40	<40	NC	70 - 130	30	m
Chloroform	ND	100	99	1.0	98	100	2.0	70 - 130	30	
Chloromethane	ND	90	83	8.1	78	87	10.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	99	93	6.3	96	95	1.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	97	97	0.0	94	100	6.2	70 - 130	30	
Dibromochloromethane	ND	111	110	0.9	99	99	0.0	70 - 130	30	
Dibromomethane	ND	103	100	3.0	94	102	8.2	70 - 130	30	
Dichlorodifluoromethane	ND	108	98	9.7	85	98	14.2	70 - 130	30	
Ethylbenzene	ND	98	96	2.1	97	101	4.0	70 - 130	30	
Hexachlorobutadiene	ND	108	107	0.9	108	117	8.0	70 - 130	30	
Isopropylbenzene	ND	98	99	1.0	94	98	4.2	70 - 130	30	
m&p-Xylene	ND	99	97	2.0	95	102	7.1	70 - 130	30	
Methyl ethyl ketone	ND	62	59	5.0	55	55	0.0	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	96	94	2.1	93	98	5.2	70 - 130	30	
Methylene chloride	ND	92	89	3.3	90	94	4.3	70 - 130	30	
Naphthalene	ND	104	101	2.9	99	108	8.7	70 - 130	30	
n-Butylbenzene	ND	101	105	3.9	95	99	4.1	70 - 130	30	
n-Propylbenzene	ND	102	102	0.0	97	102	5.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBD37825

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
o-Xylene	ND	106	102	3.8	96	100	4.1	70 - 130	30	
p-Isopropyltoluene	ND	103	104	1.0	98	101	3.0	70 - 130	30	
sec-Butylbenzene	ND	97	95	2.1	94	100	6.2	70 - 130	30	
Styrene	ND	101	98	3.0	96	102	6.1	70 - 130	30	
tert-Butylbenzene	ND	101	100	1.0	96	103	7.0	70 - 130	30	
Tetrachloroethene	ND	104	105	1.0	103	104	1.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	92	85	7.9	85	92	7.9	70 - 130	30	
Toluene	ND	98	94	4.2	95	105	10.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	101	99	2.0	96	96	0.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	105	103	1.9	99	108	8.7	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	97	99	2.0	89	88	1.1	70 - 130	30	
Trichloroethene	ND	105	103	1.9	95	100	5.1	70 - 130	30	
Trichlorofluoromethane	ND	115	109	5.4	<40	43	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	107	103	3.8	93	97	4.2	70 - 130	30	
Vinyl chloride	ND	97	90	7.5	89	101	12.6	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	102	101	1.0	97	101	4.0	70 - 130	30	
% Bromofluorobenzene	94	101	100	1.0	103	102	1.0	70 - 130	30	
% Dibromofluoromethane	106	105	102	2.9	102	96	6.1	70 - 130	30	
% Toluene-d8	94	100	98	2.0	99	103	4.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of 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.

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

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

Phyllis Shiller, Laboratory Director
March 06, 2013

Requested Criteria: GBM, RC

State: CT

Sample Criteria Exceedences Report

GBD37825 - MAGUIRE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD37828	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1600	670	1000	1000	ug/Kg
BD37828	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1600	670	1000	1000	ug/Kg
BD37828	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2000	670	1000	1000	ug/Kg
BD37828	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2500	670	1000	1000	ug/Kg
BD37828	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2500	670	1000	1000	ug/Kg
BD37828	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1700	670	1000	1000	ug/Kg
BD37828	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1700	670	1000	1000	ug/Kg
BD37828	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	180	100	100	ug/Kg
BD37828	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	180	110	110	ug/Kg
BD37828	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/kg	ND	180	100	100	ug/Kg
BD37828	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/k	ND	180	7	7	ug/Kg
BD37828	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GB PMC (mg/kg)	2800	72	2500	2500	mg/Kg
BD37828	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	2800	72	500	500	mg/Kg
BD37828	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	467	4.8	400	400	mg/Kg
BD37828	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.154	0.010	0.15	0.15	mg/L
BD37829	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1600	560	1000	1000	ug/Kg
BD37829	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1600	560	1000	1000	ug/Kg
BD37829	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2300	560	1000	1000	ug/Kg
BD37829	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2800	560	1000	1000	ug/Kg
BD37829	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2800	560	1000	1000	ug/Kg
BD37829	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1800	560	1000	1000	ug/Kg
BD37829	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1800	560	1000	1000	ug/Kg
BD37829	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	550	59	500	500	mg/Kg
BD37829	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	4380	38	400	400	mg/Kg

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGUIRE

Project Location: MIDDLETOWN PUMP STATION **Project Number:**

Laboratory Sample ID(s): BD37825, BD37826, BD37827, BD37828, BD37829, BD37830, BD37831

Sampling Date(s): 2/20/2013

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☑ 7470/7471	☐ 8081	☐ EPH	☐ TO15
☑ 8082	☐ 8151	☑ 8260	☑ 8270	☑ ETPH	☐ 9010/9012	☐ VPH	

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☐ Yes ☑ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Wednesday, March 06, 2013

Printed Name: Greg Lawrence

Position: Assistant Lab Director

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD37825

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

8260 Volatile Organic Compounds
For sample ID BD37828 - Due to the concentration of target compounds, not all of the requested criteria could be achieved.

ETPH Narration

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

QC Batch 221666 (Samples: BD37825, BD37826, BD37827, BD37828, BD37829): -----

The LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected.

Instrument: Au-fid1 02/21/13-2 (BD37825, BD37828, BD37829)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 2/21/2013

Instrument: Au-xl2 02/21/13-1 (BD37826, BD37827)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C36

Printed Name Jeff Bucko
Position: Chemist
Date: 2/21/2013

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD37825

QC (Batch Specific)

---------- Sample No: BD37704, QA/QC Batch: 221666 ----------

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum HC(56%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Mercury Narration

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

Instrument: Merlin 02/21/13-1 (BD37825, BD37826, BD37827, BD37828, BD37829)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 2/21/2013

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD37825

QC (Site Specific)

---------- Sample No: BD37825, QA/QC Batch: 221711 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD38135, QA/QC Batch: 221713 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

ICP Narration

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

Instrument: Arcos 02/21/13-1 (BD37825, BD37826, BD37827, BD37828, BD37829)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 2/21/2013

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD37825

QC (Site Specific)

---------- Sample No: BD37829, QA/QC Batch: 221714 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD37822, QA/QC Batch: 221669 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PAH Narration

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

Instrument: Chem07 02/20/13-1 (BD37825, BD37826, BD37827)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem07/BN_0204):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 2/20/2013

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD37825

QC (Batch Specific)

---------- Sample No: BD37555, QA/QC Batch: 221579 ----------

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.

PCB Narration

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

Instrument: Au-ecd1 02/21/13-1 (BD37825, BD37826)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/21/2013

Instrument: Au-ecd8 02/21/13-1 (BD37827, BD37828, BD37829)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/21/2013

QC (Batch Specific)

---------- Sample No: BD37434, QA/QC Batch: 221578 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD37825

SVOA Narration

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

Instrument: Chem09 02/21/13-1 (BD37828, BD37829)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem09/sv_0220):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Benzaldehyde, 4-chloroaniline, 3-nitroaniline, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, Carbazole

The following compounds failed to meet the minimum required response factor: 2-nitrophenol

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: Benzaldehyde, Aniline, 4-Chloroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Atrazine, Carbazole

Printed Name Damien Drobinski
Position: Chemist
Date: 2/21/2013

QC (Batch Specific)

---------- Sample No: BD37555, QA/QC Batch: 221579 ----------

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.

VOA Narration

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

QC Batch 222046 (Samples: BD37828): -----

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for this analyte is likely. (Acetone)

QC Batch 222047 (Samples: BD37829): -----

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for this analyte is likely. (Acetone)

The QC recoveries for one analyte is below the lower range, but within the method criteria. A slight low bias is likely. (Methyl ethyl ketone)

Instrument: Chem03 02/21/13-1 (BD37828)

Initial Calibration Verification (RCPS_0218):
>90% of target compounds met method criteria.

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD37825

The following compounds had %RSDs >20%: Acetone, Methyl Ethyl Ketone

Continuing Calibration Verification:
>80% of target compounds met method criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: 2,2-Dichloropropane

Printed Name Johanna Harrington
Position: Chemist
Date: 2/21/2013

Instrument: Chem18 02/20/13-2 (BD37825, BD37826, BD37827, BD37830, BD37831)

Initial Calibration Verification (CHEM18/RCPS_0207):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Acrolein and Acetone.

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Acrolein

Printed Name Johanna Harrington
Position: Chemist
Date: 2/20/2013

Instrument: Chem18 02/22/13-1 (BD37829)

Initial Calibration Verification (CHEM18/RCPS_0207):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Acrolein and Acetone.

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Acetone, Methyl Ethyl Ketone

Printed Name Johanna Harrington
Position: Chemist
Date: 2/22/2013

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD37825

QC (Batch Specific)

---------- Sample No: BD38199, QA/QC Batch: 222046 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(69%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD38241, QA/QC Batch: 221775 ----------

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.

---------- Sample No: BD38697, QA/QC Batch: 222047 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(68%), Methyl ethyl ketone(62%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Methyl ethyl ketone(59%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 1C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ N ☐

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 1 °C Pg 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: jane.witherell@CDRMaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Highway
Rocky Hill, CT 06067

Project: Middletown Pump Station
Report to: Jane Witherell
Invoice to: CDR Maguire - Bid Prices

Project P.O: 14712.02
Phone #: 860-563-3162
Fax #:

Sampler's Signature: [signature] Date: 2/20/13

Client Sample - Information - Identification

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	PAHs	ETPH	PCBs	Total RCRA Metals	SPLP RCRA Metals	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
37825	PSGP-01	S	2/20/13	9:55	X	X	X	X	X	X	3	1								
37826	PSGP-07	S		8:15	X	X	X	X	X	X	3	2								
37827	PSGP-37	S		8:50	X	X	X	X	X	X	3	2								
37828	PSGP-38	S		9:15	X	X	X	X	X	X	3	2								
37829	PSGP-39	S		[illegible]	X	X	X	X	X	X	3	2								
37830	Trip Blank HL	S		10:40 —	X	X	X	X	X	X	3									
37831	Trip Blank LL																			

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/20/13	1213

Comments, Special Requirements or Regulations:
PSGP-01 0'-2', PSGP-39 1-3
PSGP-07 2'-4'
PSGP-37 3-5
PSGP-38 3-5
Note: PSGP-01 had low recovery 1 8oz jar and VOAs

Turnaround:
☐ 1 Day*
☐ 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

Cooler: Yes [X] No [ ]
Coolant: IPK [ ] ICE [X] N [ ]

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 1 °C Pg 1 of 1

Data Delivery:
[ ] Fax #:
[X] Email: jane.witherell@CDRMaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Highway
Rocky Hill, CT 06067

Project: Middletown Pump Station
Report to: Jane Witherell
Invoice to: CDR Maguire - Bid Prices

Project P.O: 14712.02
Phone #: 860-563-3162
Fax #:

Sampler's Signature: [signature] Date: 2/20/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	PAHs	ETPH	PCBs	Total RCRA Metals	SPLP RCRA Metals	Soil VOA Vials [1] methanol ([2]) H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
37825	PSGP-01	S	2/20/13	9:55	X	X	X	X	X	X	3	1								
37826	PSGP-07	S	|	8:15	X	X	X	X	X	X	3	2								
37827	PSGP-37	S	|	8:50	X	X	X	X	X	X	3	2								
37828	PSGP-38	S	|	9:15	X	X	X	X	X	X	3	2								
37829	PSGP-39	S	|	10:40	X	X	X	X	X	X	3	2								
37830	Trip Blank HL	S	|	—	X	X	X	X	X	X	3									
37831	Trip Blank LL																			

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	2/20/13	1213

Comments, Special Requirements or Regulations:
PSGP-01 0'-2', PSGP-39 1-3
PSGP-07 2'-4'
PSGP-37 3-5
PSGP-38 3-5
Note: PSGP-01 had low recovery
1 8oz jar and VOAs

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

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

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

JHB

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*
[ ] Phoenix Std Report
[ ] Other

* SURCHARGE APPLIES

PHOENIX
Environmental Laboratories, Inc.

Wednesday, March 06, 2013

Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Project ID: MIDDLETOWN PUMP STATION
Sample ID#s: BD41136 - BD41137

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

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

Analysis Report

March 06, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/28/13	8:15
Location Code:	MAGU-DAS	Received by:	SW	02/28/13	13:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD41136
Phoenix ID: BD41136

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-18

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	03/01/13	EK	SW6010
Arsenic	2.2	0.7	mg/Kg	03/01/13	EK	SW6010
Barium	49.5	0.35	mg/Kg	03/01/13	EK	SW6010
Cadmium	< 0.35	0.35	mg/Kg	03/01/13	EK	SW6010
Chromium	11.6	0.35	mg/Kg	03/01/13	EK	SW6010
Mercury	0.19	0.06	mg/Kg	03/01/13	RS	SW-7471
Lead	47.3	0.35	mg/Kg	03/01/13	EK	SW6010
Selenium	< 1.4	1.4	mg/Kg	03/01/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/02/13	LK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/02/13	LK	SW6010
SPLP Barium	0.058	0.010	mg/L	03/02/13	LK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/02/13	LK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/02/13	LK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/01/13	RS	1312/SW7470
SPLP Lead	0.015	0.010	mg/L	03/02/13	LK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/02/13	LK	SW6010
SPLP Metals Digestion	Completed			03/01/13	X/X	SW846-3005
Percent Solid	87		%	02/28/13	JL	E160.3
Soil Extraction for PCB	Completed			02/28/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/28/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/28/13	BJ/V	3545
Mercury Digestion	Completed			03/01/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/01/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/28/13	X	EPA 1312
Total Metals Digest	Completed			02/28/13	AG	SW846 - 3050
Field Extraction	Completed			02/28/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	110	56	mg/Kg	03/01/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-18

Phoenix I.D.: BD41136

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/01/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	88		%	03/01/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	03/01/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	03/01/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	03/01/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	03/01/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	03/01/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	03/01/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	03/01/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	03/01/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	03/01/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	97		%	03/01/13	AW	30 - 150 %
% TCMX	87		%	03/01/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,1,1-Trichloroethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	03/04/13	R/J	SW8260
1,1,2-Trichloroethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloroethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloroethene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloropropene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2,3-Trichloropropane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2-Dibromoethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichlorobenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichloroethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichloropropane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,3-Dichlorobenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,3-Dichloropropane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
1,4-Dichlorobenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
2,2-Dichloropropane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
2-Chlorotoluene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
2-Hexanone	ND	23	ug/Kg	03/04/13	R/J	SW8260
2-Isopropyltoluene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
4-Chlorotoluene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	03/04/13	R/J	SW8260
Acetone	ND	93	ug/Kg	03/04/13	R/J	SW8260
Acrylonitrile	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Benzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Bromobenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Bromochloromethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-18

Phoenix I.D.: BD41136

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Bromoform	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Bromomethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Carbon Disulfide	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Carbon tetrachloride	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Chlorobenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Chloroethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Chloroform	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Chloromethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	03/04/13	R/J	SW8260
Dibromomethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Dichlorodifluoromethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Ethylbenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Hexachlorobutadiene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Isopropylbenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
m&p-Xylene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	03/04/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.3	ug/Kg	03/04/13	R/J	SW8260
Methylene chloride	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Naphthalene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
n-Butylbenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
n-Propylbenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
o-Xylene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
p-Isopropyltoluene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
sec-Butylbenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Styrene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
tert-Butylbenzene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Tetrachloroethene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	9.3	ug/Kg	03/04/13	R/J	SW8260
Toluene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Total Xylenes	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.3	ug/Kg	03/04/13	R/J	SW8260
Trichloroethene	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Trichlorofluoromethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Trichlorotrifluoroethane	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
Vinyl chloride	ND	4.7	ug/Kg	03/04/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	03/04/13	R/J	70 - 130 %
% Bromofluorobenzene	95		%	03/04/13	R/J	70 - 130 %
% Dibromofluoromethane	101		%	03/04/13	R/J	70 - 130 %
% Toluene-d8	98		%	03/04/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/28/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/28/13	DD	SW 8270
Acenaphthylene	1900	260	ug/Kg	02/28/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-18

Phoenix I.D.: BD41136

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	1100	260	ug/Kg	02/28/13	DD	SW 8270
Benz(a)anthracene	4800	260	ug/Kg	02/28/13	DD	SW 8270
Benzo(a)pyrene	4800	260	ug/Kg	02/28/13	DD	SW 8270
Benzo(b)fluoranthene	7400	260	ug/Kg	02/28/13	DD	SW 8270
Benzo(ghi)perylene	2600	260	ug/Kg	02/28/13	DD	SW 8270
Benzo(k)fluoranthene	2000	260	ug/Kg	02/28/13	DD	SW 8270
Chrysene	6300	260	ug/Kg	02/28/13	DD	SW 8270
Dibenz(a,h)anthracene	790	260	ug/Kg	02/28/13	DD	SW 8270
Fluoranthene	8100	260	ug/Kg	02/28/13	DD	SW 8270
Fluorene	340	260	ug/Kg	02/28/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	2300	260	ug/Kg	02/28/13	DD	SW 8270
Naphthalene	310	260	ug/Kg	02/28/13	DD	SW 8270
Phenanthrene	3700	260	ug/Kg	02/28/13	DD	SW 8270
Pyrene	9000	260	ug/Kg	02/28/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	78		%	02/28/13	DD	30 - 130 %
% Nitrobenzene-d5	82		%	02/28/13	DD	30 - 130 %
% Terphenyl-d14	81		%	02/28/13	DD	30 - 130 %

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

Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C12 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

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

Analysis Report

March 06, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill, CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	02/28/13	8:50
Location Code:	MAGU-DAS	Received by:	SW	02/28/13	13:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD41136
Phoenix ID: BD41137

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-19

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	03/01/13	LK	SW6010
Arsenic	1.5	0.8	mg/Kg	03/01/13	LK	SW6010
Barium	61.6	0.39	mg/Kg	03/01/13	LK	SW6010
Cadmium	0.41	0.39	mg/Kg	03/01/13	LK	SW6010
Chromium	10.7	0.39	mg/Kg	03/01/13	LK	SW6010
Mercury	0.15	0.07	mg/Kg	03/01/13	RS	SW-7471
Lead	206	3.9	mg/Kg	03/01/13	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	03/01/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/02/13	LK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/02/13	LK	SW6010
SPLP Barium	0.028	0.010	mg/L	03/02/13	LK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/02/13	LK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/02/13	LK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/01/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	03/02/13	LK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/02/13	LK	SW6010
SPLP Metals Digestion	Completed			03/01/13	X/X	SW846-3005
Percent Solid	87		%	02/28/13	JL	E160.3
Soil Extraction for PCB	Completed			02/28/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			02/28/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			02/28/13	BJ/V	3545
Mercury Digestion	Completed			03/01/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/01/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			02/28/13	X	EPA 1312
Total Metals Digest	Completed			02/28/13	AG	SW846 - 3050
Field Extraction	Completed			02/28/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	110	56	mg/Kg	03/01/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-19

Phoenix I.D.: BD41137

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/01/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	113		%	03/01/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	370	ug/Kg	03/01/13	AW	SW 8082
PCB-1221	ND	370	ug/Kg	03/01/13	AW	SW 8082
PCB-1232	ND	370	ug/Kg	03/01/13	AW	SW 8082
PCB-1242	ND	370	ug/Kg	03/01/13	AW	SW 8082
PCB-1248	ND	370	ug/Kg	03/01/13	AW	SW 8082
PCB-1254	ND	370	ug/Kg	03/01/13	AW	SW 8082
PCB-1260	ND	370	ug/Kg	03/01/13	AW	SW 8082
PCB-1262	ND	370	ug/Kg	03/01/13	AW	SW 8082
PCB-1268	ND	370	ug/Kg	03/01/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	96		%	03/01/13	AW	30 - 150 %
% TCMX	76		%	03/01/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	03/04/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloroethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloroethene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloropropene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,2,4-Trimethylbenzene	2700	270	ug/Kg	03/04/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,2-Dibromoethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichloroethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichloropropane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,3,5-Trimethylbenzene	150	5.2	ug/Kg	03/04/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,3-Dichloropropane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
2,2-Dichloropropane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
2-Chlorotoluene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
2-Hexanone	ND	26	ug/Kg	03/04/13	R/J	SW8260
2-Isopropyltoluene	9.6	5.2	ug/Kg	03/04/13	R/J	SW8260
4-Chlorotoluene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	03/04/13	R/J	SW8260
Acetone	ND	100	ug/Kg	03/04/13	R/J	SW8260
Acrylonitrile	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Benzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Bromobenzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Bromochloromethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-19

Phoenix I.D.: BD41137

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Bromoform	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Bromomethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Carbon Disulfide	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Carbon tetrachloride	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Chlorobenzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Chloroethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Chloroform	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Chloromethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	03/04/13	R/J	SW8260
Dibromomethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Ethylbenzene	89	5.2	ug/Kg	03/04/13	R/J	SW8260
Hexachlorobutadiene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Isopropylbenzene	46	5.2	ug/Kg	03/04/13	R/J	SW8260
m&p-Xylene	320	5.2	ug/Kg	03/04/13	R/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	03/04/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/04/13	R/J	SW8260
Methylene chloride	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Naphthalene	550	270	ug/Kg	03/04/13	R/J	SW8260
n-Butylbenzene	24	5.2	ug/Kg	03/04/13	R/J	SW8260
n-Propylbenzene	70	5.2	ug/Kg	03/04/13	R/J	SW8260
o-Xylene	200	5.2	ug/Kg	03/04/13	R/J	SW8260
p-Isopropyltoluene	37	5.2	ug/Kg	03/04/13	R/J	SW8260
sec-Butylbenzene	24	5.2	ug/Kg	03/04/13	R/J	SW8260
Styrene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
tert-Butylbenzene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Tetrachloroethene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/04/13	R/J	SW8260
Toluene	21	5.2	ug/Kg	03/04/13	R/J	SW8260
Total Xylenes	520	5.2	ug/Kg	03/04/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/04/13	R/J	SW8260
Trichloroethene	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Trichlorofluoromethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
Vinyl chloride	ND	5.2	ug/Kg	03/04/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	104		%	03/04/13	R/J	70 - 130 %
% Bromofluorobenzene	130		%	03/04/13	R/J	70 - 130 %
% Dibromofluoromethane	102		%	03/04/13	R/J	70 - 130 %
% Toluene-d8	123		%	03/04/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	02/28/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	02/28/13	DD	SW 8270
Acenaphthylene	440	260	ug/Kg	02/28/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-19

Phoenix I.D.: BD41137

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	270	260	ug/Kg	02/28/13	DD	SW 8270
Benz(a)anthracene	1300	260	ug/Kg	02/28/13	DD	SW 8270
Benzo(a)pyrene	1400	260	ug/Kg	02/28/13	DD	SW 8270
Benzo(b)fluoranthene	1800	260	ug/Kg	02/28/13	DD	SW 8270
Benzo(ghi)perylene	760	260	ug/Kg	02/28/13	DD	SW 8270
Benzo(k)fluoranthene	560	260	ug/Kg	02/28/13	DD	SW 8270
Chrysene	1500	260	ug/Kg	02/28/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	02/28/13	DD	SW 8270
Fluoranthene	2100	260	ug/Kg	02/28/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	02/28/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	640	260	ug/Kg	02/28/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	02/28/13	DD	SW 8270
Phenanthrene	870	260	ug/Kg	02/28/13	DD	SW 8270
Pyrene	2300	260	ug/Kg	02/28/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	79		%	02/28/13	DD	30 - 130 %
% Nitrobenzene-d5	83		%	02/28/13	DD	30 - 130 %
% Terphenyl-d14	83		%	02/28/13	DD	30 - 130 %

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

Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C12 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 06, 2013
Reviewed and Released by: Maryam Taylor, Project Manager

PHOENIX

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

QA/QC Report

March 06, 2013

QA/QC Data

SDG I.D.: GBD41136

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 221964, QC Sample No: BD39023 (BD41136, BD41137)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.006	0.005	NC	99.1	98.2	0.9	102	101	1.0	75 - 125	20	
Barium	BRL	0.064	0.064	0	100	102	2.0	100	98.8	1.2	75 - 125	20	
Cadmium	BRL	<0.005	<0.005	NC	102	101	1.0	102	100	2.0	75 - 125	20	
Chromium	BRL	<0.010	<0.010	NC	98.6	97.6	1.0	100	99.3	0.7	75 - 125	20	
Lead	BRL	<0.010	<0.010	NC	100	99.5	0.5	101	100	1.0	75 - 125	20	
Selenium	BRL	<0.020	<0.020	NC	100	99.9	0.1	103	102	1.0	75 - 125	20	
Silver	BRL	<0.010	<0.010	NC	96.6	96.7	0.1	99.4	98.2	1.2	75 - 125	20	
QA/QC Batch 222380, QC Sample No: BD41136 (BD41136)													
ICP Metals - Soil													
Arsenic	BRL	2.2	2.28	NC	88.8	90.1	1.5	87.5	88.2	0.8	75 - 125	30	
Barium	BRL	49.5	53.3	7.40	91.9	95.5	3.8	66.2	68.7	3.7	75 - 125	30	m
Cadmium	BRL	<0.35	<0.36	NC	93.8	97.2	3.6	92.9	93.6	0.8	75 - 125	30	
Chromium	BRL	11.6	12.2	5.00	96.2	97.9	1.8	96.3	96.9	0.6	75 - 125	30	
Lead	BRL	47.3	50.7	6.90	95.0	94.1	1.0	86.4	91.5	5.7	75 - 125	30	
Selenium	BRL	<1.4	<1.4	NC	90.0	92.2	2.4	73.1	74.2	1.5	75 - 125	30	m
Silver	BRL	0.35	0.52	NC	89.5	91.7	2.4	92.1	92.4	0.3	75 - 125	30	
QA/QC Batch 222374, QC Sample No: BD41137 (BD41137)													
ICP Metals - Soil													
Arsenic	BRL	1.5	1.98	NC	83.5	89.3	6.7	87.7	88.6	1.0	75 - 125	30	
Barium	BRL	61.6	41.0	40.2	91.5	95.9	4.7	92.5	61.7	39.9	75 - 125	30	m,r
Cadmium	BRL	0.41	<0.35	NC	91.5	97.4	6.2	92.2	93.4	1.3	75 - 125	30	
Chromium	BRL	10.7	13.3	21.7	93.0	98.3	5.5	98.3	99.1	0.8	75 - 125	30	
Lead	BRL	206	228	10.1	89.7	93.5	4.1	87.2	86.7	0.6	75 - 125	30	
Selenium	BRL	<1.6	<1.4	NC	88.2	91.1	3.2	73.3	74.1	1.1	75 - 125	30	m
Silver	BRL	<0.39	<0.35	NC	89.9	91.3	1.5	92.9	93.0	0.1	75 - 125	30	
QA/QC Batch 222435, QC Sample No: BD41137 (BD41136, BD41137)													
Mercury - Soil	BRL	0.15	0.14	NC	102	98.5	3.5	104	119	13.5	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 222434, QC Sample No: BD41462 (BD41136, BD41137)													
Mercury - Water	BRL	<0.0002	<0.0002	NC	96.8	96.2	0.6	95.6	94.8	0.8	70 - 130	20	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

PHOENIX

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

QA/QC Report

March 06, 2013

QA/QC Data

SDG I.D.: GBD41136

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 222228, QC Sample No: BD40886 (BD41136, BD41137)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	80	77	3.8	83	85	2.4	30 - 130	30	
Acenaphthene	ND	74	71	4.1	77	77	0.0	30 - 130	30	
Acenaphthylene	ND	84	81	3.6	87	87	0.0	30 - 130	30	
Anthracene	ND	80	77	3.8	82	81	1.2	30 - 130	30	
Benz(a)anthracene	ND	87	83	4.7	88	88	0.0	30 - 130	30	
Benzo(a)pyrene	ND	77	73	5.3	78	78	0.0	30 - 130	30	
Benzo(b)fluoranthene	ND	84	79	6.1	87	88	1.1	30 - 130	30	
Benzo(ghi)perylene	ND	94	86	8.9	85	85	0.0	30 - 130	30	
Benzo(k)fluoranthene	ND	80	75	6.5	83	81	2.4	30 - 130	30	
Chrysene	ND	89	85	4.6	90	91	1.1	30 - 130	30	
Dibenz(a,h)anthracene	ND	82	76	7.6	76	79	3.9	30 - 130	30	
Fluoranthene	ND	81	78	3.8	84	83	1.2	30 - 130	30	
Fluorene	ND	76	74	2.7	79	79	0.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	80	84	4.9	85	85	0.0	30 - 130	30	
Naphthalene	ND	73	70	4.2	75	76	1.3	30 - 130	30	
Phenanthrene	ND	80	77	3.8	83	83	0.0	30 - 130	30	
Pyrene	ND	79	76	3.9	83	81	2.4	30 - 130	30	
% 2-Fluorobiphenyl	78	76	75	1.3	82	81	1.2	30 - 130	30	
% Nitrobenzene-d5	70	63	62	1.6	68	68	0.0	30 - 130	30	
% Terphenyl-d14	83	80	79	1.3	87	84	3.5	30 - 130	30	

Comment:

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

QA/QC Batch 222230, QC Sample No: BD40970 (BD41136, BD41137)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	81	78	3.8	76	87	13.5	40 - 140	30	
PCB-1221	ND							40 - 140	30	
PCB-1232	ND							40 - 140	30	
PCB-1242	ND							40 - 140	30	
PCB-1248	ND							40 - 140	30	
PCB-1254	ND							40 - 140	30	
PCB-1260	ND	69	67	2.9	68	74	8.5	40 - 140	30	
PCB-1262	ND							40 - 140	30	
PCB-1268	ND							40 - 140	30	
% DCBP (Surrogate Rec)	67	81	81	0.0	78	83	6.2	30 - 150	30	
% TCMX (Surrogate Rec)	74	82	78	5.0	75	85	12.5	30 - 150	30	
QA/QC Batch 222365, QC Sample No: BD41361 (BD41136, BD41137)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum HC	ND	75	53	34.4	70	79	12.1	60 - 120	30	l,r
% n-Pentacosane	78	96	59	47.7	86	98	13.0	50 - 150	30	r

QA/QC Data

SDG I.D.: GBD41136

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 222654, QC Sample No: BD41806 (BD41137 (50X))									
Volatiles - Soil									
1,2,4-Trimethylbenzene	ND	96	93	3.2	119	92	25.6	70 - 130	30
Naphthalene	ND	114	85	29.1	101	113	11.2	70 - 130	30
Comment:									
Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.									
QA/QC Batch , QC Sample No: BD41889 (BD41136, BD41137)									
Volatiles - Soil									
1,1,1,2-Tetrachloroethane	ND	97	110	12.6				70 - 130	30
1,1,1-Trichloroethane	ND	96	108	11.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	89	95	6.5				70 - 130	30
1,1,2-Trichloroethane	ND	102	107	4.8				70 - 130	30
1,1-Dichloroethane	ND	98	115	16.0				70 - 130	30
1,1-Dichloroethene	ND	102	119	15.4				70 - 130	30
1,1-Dichloropropene	ND	96	107	10.8				70 - 130	30
1,2,3-Trichlorobenzene	ND	104	96	8.0				70 - 130	30
1,2,3-Trichloropropane	ND	80	101	23.2				70 - 130	30
1,2,4-Trichlorobenzene	ND	98	96	2.1				70 - 130	30
1,2,4-Trimethylbenzene	ND	88	101	13.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	97	96	1.0				70 - 130	30
1,2-Dibromoethane	ND	103	103	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	92	102	10.3				70 - 130	30
1,2-Dichloroethane	ND	96	100	4.1				70 - 130	30
1,2-Dichloropropane	ND	94	103	9.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	86	100	15.1				70 - 130	30
1,3-Dichlorobenzene	ND	92	103	11.3				70 - 130	30
1,3-Dichloropropane	ND	92	98	6.3				70 - 130	30
1,4-Dichlorobenzene	ND	93	103	10.2				70 - 130	30
2,2-Dichloropropane	ND	99	109	9.6				70 - 130	30
2-Chlorotoluene	ND	87	100	13.9				70 - 130	30
2-Hexanone	ND	77	78	1.3				70 - 130	30
2-Isopropyltoluene	ND	87	100	13.9				70 - 130	30
4-Chlorotoluene	ND	87	100	13.9				70 - 130	30
4-Methyl-2-pentanone	ND	95	93	2.1				70 - 130	30
Acetone	ND	94	93	1.1				70 - 130	30
Acrylonitrile	ND	106	115	8.1				70 - 130	30
Benzene	ND	94	103	9.1				70 - 130	30
Bromobenzene	ND	90	102	12.5				70 - 130	30
Bromochloromethane	ND	107	114	6.3				70 - 130	30
Bromodichloromethane	ND	98	107	8.8				70 - 130	30
Bromoform	ND	108	113	4.5				70 - 130	30
Bromomethane	ND	118	124	5.0				70 - 130	30
Carbon Disulfide	ND	96	112	15.4				70 - 130	30
Carbon tetrachloride	ND	99	112	12.3				70 - 130	30
Chlorobenzene	ND	93	105	12.1				70 - 130	30
Chloroethane	ND	109	126	14.5				70 - 130	30
Chloroform	ND	99	107	7.8				70 - 130	30
Chloromethane	ND	91	97	6.4				70 - 130	30
cis-1,2-Dichloroethene	ND	112	119	6.1				70 - 130	30
cis-1,3-Dichloropropene	ND	96	103	7.0				70 - 130	30
Dibromochloromethane	ND	100	109	8.6				70 - 130	30

QA/QC Data

SDG I.D.: GBD41136

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibromomethane	ND	104	106	1.9				70 - 130	30
Dichlorodifluoromethane	ND	91	102	11.4				70 - 130	30
Ethylbenzene	ND	90	101	11.5				70 - 130	30
Hexachlorobutadiene	ND	91	95	4.3				70 - 130	30
Isopropylbenzene	ND	87	103	16.8				70 - 130	30
m&p-Xylene	ND	92	104	12.2				70 - 130	30
Methyl ethyl ketone	ND	82	77	6.3				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	94	100	6.2				70 - 130	30
Methylene chloride	ND	103	117	12.7				70 - 130	30
Naphthalene	ND	109	88	21.3				70 - 130	30
n-Butylbenzene	ND	88	98	10.8				70 - 130	30
n-Propylbenzene	ND	90	105	15.4				70 - 130	30
o-Xylene	ND	96	111	14.5				70 - 130	30
p-Isopropyltoluene	ND	89	101	12.6				70 - 130	30
sec-Butylbenzene	ND	85	99	15.2				70 - 130	30
Styrene	ND	96	107	10.8				70 - 130	30
tert-Butylbenzene	ND	87	100	13.9				70 - 130	30
Tetrachloroethene	ND	94	108	13.9				70 - 130	30
Tetrahydrofuran (THF)	ND	97	95	2.1				70 - 130	30
Toluene	ND	94	104	10.1				70 - 130	30
trans-1,2-Dichloroethene	ND	97	120	21.2				70 - 130	30
trans-1,3-Dichloropropene	ND	99	102	3.0				70 - 130	30
trans-1,4-dichloro-2-butene	ND	101	97	4.0				70 - 130	30
Trichloroethene	ND	101	111	9.4				70 - 130	30
Trichlorofluoromethane	ND	109	121	10.4				70 - 130	30
Trichlorotrifluoroethane	ND	106	121	13.2				70 - 130	30
Vinyl chloride	ND	92	102	10.3				70 - 130	30
% 1,2-dichlorobenzene-d4	99	100	100	0.0				70 - 130	30
% Bromofluorobenzene	94	98	96	2.1				70 - 130	30
% Dibromofluoromethane	100	106	101	4.8				70 - 130	30
% Toluene-d8	98	99	97	2.0				70 - 130	30

Comment:

Additional 8260 criteria: 10% of 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.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
March 06, 2013

Wednesday, March 06, 2013

Requested Criteria: GBM, RC

State: CT

Sample Criteria Exceedences Report

GBD41136 - MAGU-DAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD41136	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	4800	260	1000	1000	ug/Kg
BD41136	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	4800	260	1000	1000	ug/Kg
BD41136	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	6300	260	1000	1000	ug/Kg
BD41136	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	7400	260	1000	1000	ug/Kg
BD41136	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	7400	260	1000	1000	ug/Kg
BD41136	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2000	260	1000	1000	ug/Kg
BD41136	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	4800	260	1000	1000	ug/Kg
BD41136	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	4800	260	1000	1000	ug/Kg
BD41136	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2300	260	1000	1000	ug/Kg
BD41136	$8100SMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2300	260	1000	1000	ug/Kg
BD41137	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1300	260	1000	1000	ug/Kg
BD41137	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1300	260	1000	1000	ug/Kg
BD41137	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1500	260	1000	1000	ug/Kg
BD41137	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1800	260	1000	1000	ug/Kg
BD41137	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1800	260	1000	1000	ug/Kg
BD41137	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1400	260	1000	1000	ug/Kg
BD41137	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1400	260	1000	1000	ug/Kg

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGU-DAS

Project Location: MIDDLETOWN PUMP STATION **Project Number:**

Laboratory Sample ID(s): BD41136, BD41137

Sampling Date(s): 2/28/2013

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☑ 7470/7471	☐ 8081	☐ EPH	☐ TO15
☑ 8082	☐ 8151	☑ 8260	☑ 8270	☑ ETPH	☐ 9010/9012	☐ VPH	

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, ICP Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☑ Yes ☐ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Wednesday, March 06, 2013

Printed Name: Maryam Taylor

Position: Project Manager

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD41136

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

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

QC Batch 222365

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Ext. Petroleum HC)

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

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates. Both recoveries were within limits. No significant bias is suspected. (% n-Pentacosane)

Instrument: Au-fid84 03/01/13-2 (BD41136, BD41137)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C36

Printed Name Jeff Bucko
Position: Chemist
Date: 3/1/2013

QC (Batch Specific)

---------- Sample No: BD41361, QA/QC Batch: 222365 ----------

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum HC(53%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: % n-Pentacosane(47.7%), Ext. Petroleum HC(34.4%)

Mercury Narration

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

Instrument: Merlin 03/01/13-1 (BD41136, BD41137)

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD41136

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 3/1/2013

QC (Site Specific)

---------- Sample No: BD41137, QA/QC Batch: 222435 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD41462, QA/QC Batch: 222434 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD41136

ICP Narration

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

QC Batch 222374 (Samples: BD41137)----

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. (Barium, Selenium)

QC Batch 222380 (Samples: BD41136)----

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. (Barium, Selenium)

Instrument: Arcos 03/01/13-1 (BD41136, BD41137)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/1/2013

Instrument: Arcos 03/02/13-1 (BD41136, BD41137)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/2/2013

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD41136

QC (Site Specific)

---------- Sample No: BD41136, QA/QC Batch: 222380 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: Barium(66.2%), Selenium(73.1%)

All MSD recoveries were within 75 - 125 with the following exceptions: Barium(68.7%), Selenium(74.2%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD41137, QA/QC Batch: 222374 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: Selenium(73.3%)

All MSD recoveries were within 75 - 125 with the following exceptions: Barium(61.7%), Selenium(74.1%)

All MS/MSD RPDs were less than 30% with the following exceptions: Barium(39.9%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BD39023, QA/QC Batch: 221964 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PAH Narration

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

Instrument: Chem07 02/28/13-1 (BD41136, BD41137)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD41136

non-applicable.

Initial Calibration (Chem07/BN_0222):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 2/28/2013

QC (Batch Specific)

---------- Sample No: BD40886, QA/QC Batch: 222228 ----------

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.

PCB Narration

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

Instrument: Au-ecd24 03/01/13-1 (BD41136, BD41137)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 3/1/2013

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD41136

QC (Batch Specific)

---------- Sample No: BD40970, QA/QC Batch: 222230 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

SVOA Narration

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

Instrument: Chem06 03/01/13-1 (BD41136)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem06/SV_0227)
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Benzaldehyde, 2,4-dinitrophenol, Atrazine

The following compounds failed to meet the minimum required response factor: 2-nitrophenol, Hexachlorobenzene, % 2,4,6-tribromophenol

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration:

Printed Name Damien Drobinski
Position: Chemist
Date: 3/1/2013

QC (Batch Specific)

---------- Sample No: BD40886, QA/QC Batch: 222228 ----------

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.

VOA Narration

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

Instrument: Chem03 03/03/13-2 (BD41136, BD41137)

Initial Calibration Verification (RCPS_0227):
>90% of target compounds met method criteria.

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD41136

The following compounds had %RSDs >20%: Acetone

Continuing Calibration Verification:
>80% of target compounds met method criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Acrolein, Tetrahydrofuran (THF), 2-Hexanone, 1,2,3-Trichloropropane

Printed Name Johanna Harrington
Position: Chemist
Date: 3/3/2013

Instrument: Chem03 03/04/13-1 (BD41137)

Initial Calibration Verification (RCPS_0227):
>90% of target compounds met method criteria.
The following compounds had %RSDs >20%: Acetone

Continuing Calibration Verification:
>80% of target compounds met method criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Acrolein, Tetrahydrofuran (THF), 2-Hexanone

Printed Name Johanna Harrington
Position: Chemist
Date: 3/4/2013

QC (Batch Specific)

---------- Sample No: BD41806, QA/QC Batch: 222654 ----------

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.

---------- Sample No: BD41889, QA/QC Batch: ----------

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.

Temperature Narration

The samples in this delivery group were received at 1°C.
(Note acceptance criteria is above freezing up to 6°C)

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

RCP Certification Report

March 06, 2013

SDG I.D.: GBD41136

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ N ☐

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 1 °C Pg 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: JWitherell@CDRMaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Highway
Rocky Hill, CT 06067

Project: Middletown Pump Station
Report to: Jane Witherell
Invoice to: CDR Maguire-Bid Prices

Project P.O: 14712.02 A300
Phone #: 860-563-3158
Fax #: 860-563-3188

Client Sample - Information - Identification

Sampler's Signature: Joseph Buehler Date: 2/28/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs	PAHs	ETPH	RCBs	Total RCRA Metals	SPLP RCRA metals							Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
41136	PSGP-18	S	2/28	8:15	X	X	X	X	X	X							3	2								
41137	PSGP-19	S	2/28	8:50	X	X	X	X	X	X							3	2								

Relinquished by:	Accepted by:	Date:	Time:
	Monica J Pelle	2/28/13	13:41

Comments, Special Requirements or Regulations:
PSGP-18 8-10
PSGP-19 3-5

Turnaround:
☐ 1 Day*
☐ 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

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

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

State where samples were collected: CT

PHOENIX
Environmental Laboratories, Inc.

Friday, March 15, 2013

Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Project ID: MIDDLETOWN PUMP STATION
Sample ID#s: BD41558 - BD41567

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	7:00
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41558

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-20

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	03/04/13	LK	SW6010
Arsenic	3.1	0.8	mg/Kg	03/04/13	LK	SW6010
Barium	79.6	0.38	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	03/04/13	LK	SW6010
Chromium	15.7	0.38	mg/Kg	03/04/13	LK	SW6010
Mercury	0.15	0.06	mg/Kg	03/05/13	JA	SW-7471
Lead	66.6	0.38	mg/Kg	03/04/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.047	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.017	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	89		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	65	56	mg/Kg	03/04/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-20

Phoenix I.D.: BD41558

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	95		%	03/04/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	102		%	03/04/13	AW	30 - 150 %
% TCMX	99		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	03/04/13	R/J	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2-Dibromoethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
2-Hexanone	ND	24	ug/Kg	03/04/13	R/J	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	03/04/13	R/J	SW8260
Acetone	ND	96	ug/Kg	03/04/13	R/J	SW8260
Acrylonitrile	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Benzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Bromobenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Bromochloromethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-20

Phoenix I.D.: BD41558

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Bromoform	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Bromomethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Chlorobenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Chloroethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Chloroform	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Chloromethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	03/04/13	R/J	SW8260
Dibromomethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Ethylbenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
m&p-Xylene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	03/04/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.6	ug/Kg	03/04/13	R/J	SW8260
Methylene chloride	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Naphthalene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
o-Xylene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Styrene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	9.6	ug/Kg	03/04/13	R/J	SW8260
Toluene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Total Xylenes	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.6	ug/Kg	03/04/13	R/J	SW8260
Trichloroethene	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Trichlorotrifluoroethane	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
Vinyl chloride	ND	4.8	ug/Kg	03/04/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	03/04/13	R/J	70 - 130 %
% Bromofluorobenzene	97		%	03/04/13	R/J	70 - 130 %
% Dibromofluoromethane	104		%	03/04/13	R/J	70 - 130 %
% Toluene-d8	99		%	03/04/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	03/01/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	03/01/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	03/01/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-20

Phoenix I.D.: BD41558

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	03/01/13	DD	SW 8270
Benz(a)anthracene	670	260	ug/Kg	03/01/13	DD	SW 8270
Benzo(a)pyrene	700	260	ug/Kg	03/01/13	DD	SW 8270
Benzo(b)fluoranthene	860	260	ug/Kg	03/01/13	DD	SW 8270
Benzo(ghi)perylene	510	260	ug/Kg	03/01/13	DD	SW 8270
Benzo(k)fluoranthene	330	260	ug/Kg	03/01/13	DD	SW 8270
Chrysene	650	260	ug/Kg	03/01/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	03/01/13	DD	SW 8270
Fluoranthene	1300	260	ug/Kg	03/01/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	03/01/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	420	260	ug/Kg	03/01/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	03/01/13	DD	SW 8270
Phenanthrene	680	260	ug/Kg	03/01/13	DD	SW 8270
Pyrene	1200	260	ug/Kg	03/01/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	79		%	03/01/13	DD	30 - 130 %
% Nitrobenzene-d5	81		%	03/01/13	DD	30 - 130 %
% Terphenyl-d14	83		%	03/01/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	7:06
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41559

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-21

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	03/04/13	LK	SW6010
Arsenic	3.5	0.8	mg/Kg	03/04/13	LK	SW6010
Barium	76.7	0.41	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	03/04/13	LK	SW6010
Chromium	13.2	0.41	mg/Kg	03/04/13	LK	SW6010
Mercury	0.81	0.08	mg/Kg	03/05/13	JA	SW-7471
Lead	77.3	0.41	mg/Kg	03/04/13	LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	0.006	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.111	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	0.0007	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.204	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	85		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	57	mg/Kg	03/04/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-21

Phoenix I.D.: BD41559

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	99		%	03/04/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	77		%	03/04/13	AW	30 - 150 %
% TCMX	74		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	03/04/13	R/J	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2-Dibromoethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	03/04/13	R/J	SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	03/04/13	R/J	SW8260
Acetone	ND	99	ug/Kg	03/04/13	R/J	SW8260
Acrylonitrile	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Benzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Bromobenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Bromochloromethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-21

Phoenix I.D.: BD41559

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Bromoform	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Bromomethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Chlorobenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Chloroethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Chloroform	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Chloromethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	03/04/13	R/J	SW8260
Dibromomethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Ethylbenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Isopropylbenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
m&p-Xylene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	03/04/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	03/04/13	R/J	SW8260
Methylene chloride	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Naphthalene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
n-Butylbenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
n-Propylbenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
o-Xylene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Styrene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	03/04/13	R/J	SW8260
Toluene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Total Xylenes	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.9	ug/Kg	03/04/13	R/J	SW8260
Trichloroethene	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Trichlorotrifluoroethane	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
Vinyl chloride	ND	4.9	ug/Kg	03/04/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	03/04/13	R/J	70 - 130 %
% Bromofluorobenzene	93		%	03/04/13	R/J	70 - 130 %
% Dibromofluoromethane	103		%	03/04/13	R/J	70 - 130 %
% Toluene-d8	98		%	03/04/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	03/01/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	03/01/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	03/01/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-21

Phoenix I.D.: BD41559

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	270	ug/Kg	03/01/13	DD	SW 8270
Benz(a)anthracene	530	270	ug/Kg	03/01/13	DD	SW 8270
Benzo(a)pyrene	680	270	ug/Kg	03/01/13	DD	SW 8270
Benzo(b)fluoranthene	800	270	ug/Kg	03/01/13	DD	SW 8270
Benzo(ghi)perylene	450	270	ug/Kg	03/01/13	DD	SW 8270
Benzo(k)fluoranthene	290	270	ug/Kg	03/01/13	DD	SW 8270
Chrysene	500	270	ug/Kg	03/01/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	03/01/13	DD	SW 8270
Fluoranthene	590	270	ug/Kg	03/01/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	03/01/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	430	270	ug/Kg	03/01/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	03/01/13	DD	SW 8270
Phenanthrene	320	270	ug/Kg	03/01/13	DD	SW 8270
Pyrene	540	270	ug/Kg	03/01/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	83		%	03/01/13	DD	30 - 130 %
% Nitrobenzene-d5	86		%	03/01/13	DD	30 - 130 %
% Terphenyl-d14	90		%	03/01/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	7:15
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41560

Project ID:
Client ID: PSGP-22

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	03/04/13	LK	SW6010
Arsenic	5.1	0.8	mg/Kg	03/04/13	LK	SW6010
Barium	110	0.42	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	03/04/13	LK	SW6010
Chromium	11.8	0.42	mg/Kg	03/04/13	LK	SW6010
Mercury	1.62	0.08	mg/Kg	03/05/13	JA	SW-7471
Lead	242	4.2	mg/Kg	03/04/13	EK	SW6010
Selenium	< 1.7	1.7	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.093	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.094	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	83		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	60	mg/Kg	03/04/13	JRB	CT ETPH/8015

Project ID:
Client ID: PSGP-22

Phoenix I.D.: BD41560

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	98		%	03/04/13	JRB	50 - 150 %

Polychlorinated Biphenyls

PCB-1016	ND	390	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	390	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	390	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	390	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	390	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	390	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	390	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	390	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	390	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	97		%	03/04/13	AW	30 - 150 %
% TCMX	94		%	03/04/13	AW	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	03/14/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
2-Hexanone	ND	28	ug/Kg	03/14/13	H/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
4-Chlorotoluene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	03/14/13	H/J	SW8260
Acetone	ND	110	ug/Kg	03/14/13	H/J	SW8260
Acrylonitrile	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Benzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260

Project ID:
Client ID: PSGP-22

Phoenix I.D.: BD41560

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Bromoform	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Bromomethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Chloroethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Chloroform	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Chloromethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	03/14/13	H/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Isopropylbenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	03/14/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	03/14/13	H/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Naphthalene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
o-Xylene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Styrene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	03/14/13	H/J	SW8260
Toluene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	03/14/13	H/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	03/14/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	03/14/13	H/J	70 - 130 %
% Bromofluorobenzene	80		%	03/14/13	H/J	70 - 130 %
% Dibromofluoromethane	104		%	03/14/13	H/J	70 - 130 %
% Toluene-d8	98		%	03/14/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	03/01/13	DD	SW 8270

Project ID:
Client ID: PSGP-22

Phoenix I.D.: BD41560

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Benz(a)anthracene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Benzo(a)pyrene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Benzo(b)fluoranthene	310	280	ug/Kg	03/01/13	DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Chrysene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Fluoranthene	360	280	ug/Kg	03/01/13	DD	SW 8270
Fluorene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Naphthalene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Phenanthrene	ND	280	ug/Kg	03/01/13	DD	SW 8270
Pyrene	330	280	ug/Kg	03/01/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	79		%	03/01/13	DD	30 - 130 %
% Nitrobenzene-d5	84		%	03/01/13	DD	30 - 130 %
% Terphenyl-d14	86		%	03/01/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	7:40
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41561

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-23

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	03/04/13	LK	SW6010
Arsenic	2.9	0.8	mg/Kg	03/04/13	LK	SW6010
Barium	55.3	0.41	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.41	0.41	mg/Kg	03/04/13	LK	SW6010
Chromium	19.2	0.41	mg/Kg	03/04/13	LK	SW6010
Mercury	< 0.10	0.10	mg/Kg	03/05/13	JA	SW-7471
Lead	8.58	0.41	mg/Kg	03/04/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.132	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	75		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	66	mg/Kg	03/04/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-23

Phoenix I.D.: BD41561

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	88		%	03/04/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	430	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	430	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	430	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	430	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	430	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	430	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	430	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	430	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	430	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	92		%	03/04/13	AW	30 - 150 %
% TCMX	92		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	03/06/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2-Dibromoethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
2-Chlorotoluene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
2-Hexanone	ND	29	ug/Kg	03/06/13	H/J	SW8260
2-Isopropyltoluene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
4-Chlorotoluene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	03/06/13	H/J	SW8260
Acetone	ND	120	ug/Kg	03/06/13	H/J	SW8260
Acrylonitrile	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Benzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Bromobenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Bromochloromethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Bromoform	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Bromomethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Chlorobenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Chloroethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Chloroform	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Chloromethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	03/06/13	H/J	SW8260
Dibromomethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Ethylbenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Hexachlorobutadiene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Isopropylbenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
m&p-Xylene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	03/06/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	03/06/13	H/J	SW8260
Methylene chloride	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Naphthalene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
n-Butylbenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
n-Propylbenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
o-Xylene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
p-Isopropyltoluene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
sec-Butylbenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Styrene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
tert-Butylbenzene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	03/06/13	H/J	SW8260
Toluene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Total Xylenes	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	03/06/13	H/J	SW8260
Trichloroethene	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
Vinyl chloride	ND	5.8	ug/Kg	03/06/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	03/06/13	H/J	70 - 130 %
% Bromofluorobenzene	97		%	03/06/13	H/J	70 - 130 %
% Dibromofluoromethane	98		%	03/06/13	H/J	70 - 130 %
% Toluene-d8	97		%	03/06/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Acenaphthene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Acenaphthylene	ND	300	ug/Kg	03/02/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-23

Phoenix I.D.: BD41561

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benz(a)anthracene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benzo(a)pyrene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benzo(b)fluoranthene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benzo(ghi)perylene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benzo(k)fluoranthene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Chrysene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Fluoranthene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Fluorene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Naphthalene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Phenanthrene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Pyrene	ND	300	ug/Kg	03/02/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	72		%	03/02/13	DD	30 - 130 %
% Nitrobenzene-d5	78		%	03/02/13	DD	30 - 130 %
% Terphenyl-d14	83		%	03/02/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	8:00
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41562

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-24

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	03/04/13	LK	SW6010
Arsenic	4.8	0.8	mg/Kg	03/04/13	LK	SW6010
Barium	122	0.39	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.39	0.39	mg/Kg	03/04/13	LK	SW6010
Chromium	13.8	0.39	mg/Kg	03/04/13	LK	SW6010
Mercury	1.16	0.10	mg/Kg	03/05/13	JA	SW-7471
Lead	808	3.9	mg/Kg	03/04/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.042	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.135	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	82		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	60	mg/Kg	03/04/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-24

Phoenix I.D.: BD41562

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	94		%	03/04/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	400	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	400	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	400	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	400	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	400	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	400	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	400	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	400	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	400	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	87		%	03/04/13	AW	30 - 150 %
% TCMX	88		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	03/06/13	H/J	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
2-Hexanone	ND	26	ug/Kg	03/06/13	H/J	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	03/06/13	H/J	SW8260
Acetone	ND	100	ug/Kg	03/06/13	H/J	SW8260
Acrylonitrile	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Benzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Bromobenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Bromochloromethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-24

Phoenix I.D.: BD41562

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Bromoform	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Bromomethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Chlorobenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Chloroethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Chloroform	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Chloromethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	03/06/13	H/J	SW8260
Dibromomethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Ethylbenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
m&p-Xylene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	03/06/13	H/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/06/13	H/J	SW8260
Methylene chloride	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Naphthalene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
o-Xylene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Styrene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/06/13	H/J	SW8260
Toluene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Total Xylenes	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/06/13	H/J	SW8260
Trichloroethene	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
Vinyl chloride	ND	5.1	ug/Kg	03/06/13	H/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	97		%	03/06/13	H/J	70 - 130 %
% Bromofluorobenzene	95		%	03/06/13	H/J	70 - 130 %
% Dibromofluoromethane	96		%	03/06/13	H/J	70 - 130 %
% Toluene-d8	98		%	03/06/13	H/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	03/02/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-24

Phoenix I.D.: BD41562

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Benz(a)anthracene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Benzo(a)pyrene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Benzo(b)fluoranthene	300	280	ug/Kg	03/02/13	DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Chrysene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Fluoranthene	290	280	ug/Kg	03/02/13	DD	SW 8270
Fluorene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Naphthalene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Phenanthrene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Pyrene	ND	280	ug/Kg	03/02/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	76		%	03/02/13	DD	30 - 130 %
% Nitrobenzene-d5	80		%	03/02/13	DD	30 - 130 %
% Terphenyl-d14	82		%	03/02/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	8:40
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41563

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-29

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	03/04/13	LK	SW6010
Arsenic	0.8	0.7	mg/Kg	03/04/13	LK	SW6010
Barium	66.3	0.37	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	03/04/13	LK	SW6010
Chromium	13.1	0.37	mg/Kg	03/04/13	LK	SW6010
Mercury	< 0.07	0.07	mg/Kg	03/05/13	JA	SW-7471
Lead	64.2	0.37	mg/Kg	03/04/13	LK	SW6010
Selenium	< 1.5	1.5	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.168	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	0.011	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.053	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	90		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	55	mg/Kg	03/04/13	JRB	CT ETPH/8015

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	90		%	03/04/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	95		%	03/04/13	AW	30 - 150 %
% TCMX	93		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,1,1-Trichloroethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	03/07/13	R/P	SW8260
1,1,2-Trichloroethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,1-Dichloroethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,1-Dichloroethene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,1-Dichloropropene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2,3-Trichloropropane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dibromo-3-chloropropane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dibromoethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dichlorobenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dichloroethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dichloropropane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,3-Dichlorobenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,3-Dichloropropane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
1,4-Dichlorobenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
2,2-Dichloropropane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
2-Chlorotoluene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
2-Hexanone	ND	22	ug/Kg	03/07/13	R/P	SW8260
2-Isopropyltoluene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
4-Chlorotoluene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	03/07/13	R/P	SW8260
Acetone	ND	89	ug/Kg	03/07/13	R/P	SW8260
Acrylonitrile	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Benzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Bromobenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Bromochloromethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Bromoform	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Bromomethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Carbon Disulfide	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Carbon tetrachloride	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Chlorobenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Chloroethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Chloroform	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Chloromethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	03/07/13	R/P	SW8260
Dibromomethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Dichlorodifluoromethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Ethylbenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Hexachlorobutadiene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Isopropylbenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
m&p-Xylene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	03/07/13	R/P	SW8260
Methyl t-butyl ether (MTBE)	ND	8.9	ug/Kg	03/07/13	R/P	SW8260
Methylene chloride	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Naphthalene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
n-Butylbenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
n-Propylbenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
o-Xylene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
p-Isopropyltoluene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
sec-Butylbenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Styrene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
tert-Butylbenzene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Tetrachloroethene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Tetrahydrofuran (THF)	ND	8.9	ug/Kg	03/07/13	R/P	SW8260
Toluene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Total Xylenes	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
trans-1,4-dichloro-2-butene	ND	8.9	ug/Kg	03/07/13	R/P	SW8260
Trichloroethene	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Trichlorofluoromethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Trichlorotrifluoroethane	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
Vinyl chloride	ND	4.4	ug/Kg	03/07/13	R/P	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	03/07/13	R/P	70 - 130 %
% Bromofluorobenzene	94		%	03/07/13	R/P	70 - 130 %
% Dibromofluoromethane	101		%	03/07/13	R/P	70 - 130 %
% Toluene-d8	100		%	03/07/13	R/P	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Acenaphthylene	ND	260	ug/Kg	03/02/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-29

Phoenix I.D.: BD41563

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Benz(a)anthracene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Benzo(a)pyrene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Benzo(b)fluoranthene	290	260	ug/Kg	03/02/13	DD	SW 8270
Benzo(ghi)perylene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Chrysene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Fluoranthene	490	260	ug/Kg	03/02/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Phenanthrene	400	260	ug/Kg	03/02/13	DD	SW 8270
Pyrene	460	260	ug/Kg	03/02/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	77		%	03/02/13	DD	30 - 130 %
% Nitrobenzene-d5	79		%	03/02/13	DD	30 - 130 %
% Terphenyl-d14	84		%	03/02/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	9:00
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41564

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-31

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	03/04/13	LK	SW6010
Arsenic	3.7	0.9	mg/Kg	03/04/13	LK	SW6010
Barium	88.9	0.43	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.43	0.43	mg/Kg	03/04/13	LK	SW6010
Chromium	22.8	0.43	mg/Kg	03/04/13	LK	SW6010
Mercury	0.19	0.07	mg/Kg	03/05/13	JA	SW-7471
Lead	7.39	0.43	mg/Kg	03/04/13	LK	SW6010
Selenium	< 1.7	1.7	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.091	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.019	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	75		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	64	mg/Kg	03/04/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-31

Phoenix I.D.: BD41564

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	91		%	03/04/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	440	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	440	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	440	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	440	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	440	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	440	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	440	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	440	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	440	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	94		%	03/04/13	AW	30 - 150 %
% TCMX	78		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	28	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	110	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	5.6	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	115		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	88		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	95		%	03/07/13	R/J	70 - 130 %
% Toluene-d8	101		%	03/07/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Acenaphthene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Acenaphthylene	ND	300	ug/Kg	03/02/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-31

Phoenix I.D.: BD41564

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benz(a)anthracene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benzo(a)pyrene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benzo(b)fluoranthene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benzo(ghi)perylene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Benzo(k)fluoranthene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Chrysene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Fluoranthene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Fluorene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Naphthalene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Phenanthrene	ND	300	ug/Kg	03/02/13	DD	SW 8270
Pyrene	ND	300	ug/Kg	03/02/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	72		%	03/02/13	DD	30 - 130 %
% Nitrobenzene-d5	77		%	03/02/13	DD	30 - 130 %
% Terphenyl-d14	85		%	03/02/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	9:15
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41565

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-30

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	03/04/13	LK	SW6010
Arsenic	1.8	0.7	mg/Kg	03/04/13	LK	SW6010
Barium	27.7	0.35	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.35	0.35	mg/Kg	03/04/13	LK	SW6010
Chromium	9.05	0.35	mg/Kg	03/04/13	LK	SW6010
Mercury	< 0.08	0.08	mg/Kg	03/05/13	JA	SW-7471
Lead	22.3	0.35	mg/Kg	03/04/13	LK	SW6010
Selenium	< 1.4	1.4	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.095	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	87		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	JJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	73	57	mg/Kg	03/04/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-30

Phoenix I.D.: BD41565

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	112		%	03/04/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	380	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	380	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	98		%	03/04/13	AW	30 - 150 %
% TCMX	83		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	26	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	100	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-30

Phoenix I.D.: BD41565

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	5.1	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	94		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	96		%	03/07/13	R/J	70 - 130 %
% Toluene-d8	98		%	03/07/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Acenaphthene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Acenaphthylene	470	260	ug/Kg	03/02/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-30

Phoenix I.D.: BD41565

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Benz(a)anthracene	850	260	ug/Kg	03/02/13	DD	SW 8270
Benzo(a)pyrene	810	260	ug/Kg	03/02/13	DD	SW 8270
Benzo(b)fluoranthene	890	260	ug/Kg	03/02/13	DD	SW 8270
Benzo(ghi)perylene	520	260	ug/Kg	03/02/13	DD	SW 8270
Benzo(k)fluoranthene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Chrysene	1100	260	ug/Kg	03/02/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Fluoranthene	1600	260	ug/Kg	03/02/13	DD	SW 8270
Fluorene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	380	260	ug/Kg	03/02/13	DD	SW 8270
Naphthalene	ND	260	ug/Kg	03/02/13	DD	SW 8270
Phenanthrene	1200	260	ug/Kg	03/02/13	DD	SW 8270
Pyrene	2500	260	ug/Kg	03/02/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	81		%	03/02/13	DD	30 - 130 %
% Nitrobenzene-d5	82		%	03/02/13	DD	30 - 130 %
% Terphenyl-d14	99		%	03/02/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	9:50
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41566

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-32

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	03/04/13	LK	SW6010
Arsenic	2.8	0.8	mg/Kg	03/04/13	LK	SW6010
Barium	79.8	0.40	mg/Kg	03/04/13	LK	SW6010
Cadmium	1.70	0.40	mg/Kg	03/04/13	LK	SW6010
Chromium	26.2	0.40	mg/Kg	03/04/13	LK	SW6010
Mercury	0.13	0.09	mg/Kg	03/05/13	JA	SW-7471
Lead	122	0.40	mg/Kg	03/04/13	LK	SW6010
Selenium	< 1.6	1.6	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.118	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	0.014	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.093	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	81		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/05/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	88	61	mg/Kg	03/06/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-32

Phoenix I.D.: BD41566

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/06/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	NR		%	03/06/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	410	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	410	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	410	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	410	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	410	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	410	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	1600	410	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	410	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	410	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	103		%	03/04/13	AW	30 - 150 %
% TCMX	83		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	23	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	91	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-32

Phoenix I.D.: BD41566

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.1	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	9.1	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.1	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	4.6	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	94		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	87		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	100		%	03/07/13	R/J	70 - 130 %
% Toluene-d8	95		%	03/07/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Acenaphthylene	1300	280	ug/Kg	03/02/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-32

Phoenix I.D.: BD41566

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	450	280	ug/Kg	03/02/13	DD	SW 8270
Benz(a)anthracene	1500	280	ug/Kg	03/02/13	DD	SW 8270
Benzo(a)pyrene	1800	280	ug/Kg	03/02/13	DD	SW 8270
Benzo(b)fluoranthene	2500	280	ug/Kg	03/02/13	DD	SW 8270
Benzo(ghi)perylene	740	280	ug/Kg	03/02/13	DD	SW 8270
Benzo(k)fluoranthene	660	280	ug/Kg	03/02/13	DD	SW 8270
Chrysene	1700	280	ug/Kg	03/02/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Fluoranthene	2300	280	ug/Kg	03/02/13	DD	SW 8270
Fluorene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	730	280	ug/Kg	03/02/13	DD	SW 8270
Naphthalene	ND	280	ug/Kg	03/02/13	DD	SW 8270
Phenanthrene	1200	280	ug/Kg	03/02/13	DD	SW 8270
Pyrene	2600	280	ug/Kg	03/02/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	84		%	03/02/13	DD	30 - 130 %
% Nitrobenzene-d5	87		%	03/02/13	DD	30 - 130 %
% Terphenyl-d14	88		%	03/02/13	DD	30 - 130 %

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

Comments:

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

*For ETPH, no surrogate reported due to interference of unknown compound.

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
Reviewed and Released by: Phyllis Shiller, Laboratory Director

PHOENIX

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

Analysis Report

March 15, 2013

FOR: Attn: Ms. Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:	JB	03/01/13	10:00
Location Code:	MAGU-DAS	Received by:	LB	03/01/13	12:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02A300				

Laboratory Data

SDG ID: GBD41558
Phoenix ID: BD41567

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-33

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.47	0.47	mg/Kg	03/04/13	LK	SW6010
Arsenic	1.5	0.9	mg/Kg	03/04/13	LK	SW6010
Barium	43.2	0.47	mg/Kg	03/04/13	LK	SW6010
Cadmium	< 0.47	0.47	mg/Kg	03/04/13	LK	SW6010
Chromium	12.3	0.47	mg/Kg	03/04/13	LK	SW6010
Mercury	< 0.12	0.12	mg/Kg	03/05/13	JA	SW-7471
Lead	67.3	0.47	mg/Kg	03/04/13	LK	SW6010
Selenium	< 1.9	1.9	mg/Kg	03/04/13	LK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/04/13	EK	SW6010
SPLP Barium	0.050	0.010	mg/L	03/04/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/04/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/04/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/05/13	JA	1312/SW7470
SPLP Lead	0.089	0.010	mg/L	03/04/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/04/13	EK	SW6010
SPLP Metals Digestion	Completed			03/04/13	X/X	SW846-3005
Percent Solid	69		%	03/01/13	JL	E160.3
Soil Extraction for PCB	Completed			03/01/13	JB/V	SW3545
Soil Extraction SVOA BN	Completed			03/01/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/01/13	JJ/V	3545
Mercury Digestion	Completed			03/04/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/04/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/01/13	X	EPA 1312
Total Metals Digest	Completed			03/01/13	AG	SW846 - 3050
Field Extraction	Completed			03/01/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	71	mg/Kg	03/04/13	JRB	CT ETPH/8015

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	03/04/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	110		%	03/04/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	480	ug/Kg	03/04/13	AW	SW 8082
PCB-1221	ND	480	ug/Kg	03/04/13	AW	SW 8082
PCB-1232	ND	480	ug/Kg	03/04/13	AW	SW 8082
PCB-1242	ND	480	ug/Kg	03/04/13	AW	SW 8082
PCB-1248	ND	480	ug/Kg	03/04/13	AW	SW 8082
PCB-1254	ND	480	ug/Kg	03/04/13	AW	SW 8082
PCB-1260	ND	480	ug/Kg	03/04/13	AW	SW 8082
PCB-1262	ND	480	ug/Kg	03/04/13	AW	SW 8082
PCB-1268	ND	480	ug/Kg	03/04/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	90		%	03/04/13	AW	30 - 150 %
% TCMX	78		%	03/04/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,1,1-Trichloroethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	03/07/13	R/P	SW8260
1,1,2-Trichloroethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,1-Dichloroethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,1-Dichloroethene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,1-Dichloropropene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2,3-Trichlorobenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2,3-Trichloropropane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2,4-Trichlorobenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2,4-Trimethylbenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dibromo-3-chloropropane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dibromoethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dichlorobenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dichloroethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,2-Dichloropropane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,3,5-Trimethylbenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,3-Dichlorobenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,3-Dichloropropane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
1,4-Dichlorobenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
2,2-Dichloropropane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
2-Chlorotoluene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
2-Hexanone	ND	32	ug/Kg	03/07/13	R/P	SW8260
2-Isopropyltoluene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
4-Chlorotoluene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	03/07/13	R/P	SW8260
Acetone	ND	130	ug/Kg	03/07/13	R/P	SW8260
Acrylonitrile	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Benzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Bromobenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Bromochloromethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Bromoform	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Bromomethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Carbon Disulfide	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Carbon tetrachloride	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Chlorobenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Chloroethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Chloroform	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Chloromethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
cis-1,2-Dichloroethene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
cis-1,3-Dichloropropene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Dibromochloromethane	ND	3.9	ug/Kg	03/07/13	R/P	SW8260
Dibromomethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Dichlorodifluoromethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Ethylbenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Hexachlorobutadiene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Isopropylbenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
m&p-Xylene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Methyl Ethyl Ketone	ND	39	ug/Kg	03/07/13	R/P	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	03/07/13	R/P	SW8260
Methylene chloride	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Naphthalene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
n-Butylbenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
n-Propylbenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
o-Xylene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
p-Isopropyltoluene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
sec-Butylbenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Styrene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
tert-Butylbenzene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Tetrachloroethene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	03/07/13	R/P	SW8260
Toluene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Total Xylenes	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
trans-1,2-Dichloroethene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
trans-1,3-Dichloropropene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	03/07/13	R/P	SW8260
Trichloroethene	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Trichlorofluoromethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Trichlorotrifluoroethane	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
Vinyl chloride	ND	6.4	ug/Kg	03/07/13	R/P	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	96		%	03/07/13	R/P	70 - 130 %
% Bromofluorobenzene	87		%	03/07/13	R/P	70 - 130 %
% Dibromofluoromethane	96		%	03/07/13	R/P	70 - 130 %
% Toluene-d8	96		%	03/07/13	R/P	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	330	ug/Kg	03/02/13	DD	SW 8270
Acenaphthene	ND	330	ug/Kg	03/02/13	DD	SW 8270
Acenaphthylene	640	330	ug/Kg	03/02/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-33

Phoenix I.D.: BD41567

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	330	ug/Kg	03/02/13	DD	SW 8270
Benz(a)anthracene	1800	330	ug/Kg	03/02/13	DD	SW 8270
Benzo(a)pyrene	1900	330	ug/Kg	03/02/13	DD	SW 8270
Benzo(b)fluoranthene	2400	330	ug/Kg	03/02/13	DD	SW 8270
Benzo(ghi)perylene	730	330	ug/Kg	03/02/13	DD	SW 8270
Benzo(k)fluoranthene	880	330	ug/Kg	03/02/13	DD	SW 8270
Chrysene	1900	330	ug/Kg	03/02/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	330	ug/Kg	03/02/13	DD	SW 8270
Fluoranthene	2600	330	ug/Kg	03/02/13	DD	SW 8270
Fluorene	ND	330	ug/Kg	03/02/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	740	330	ug/Kg	03/02/13	DD	SW 8270
Naphthalene	ND	330	ug/Kg	03/02/13	DD	SW 8270
Phenanthrene	830	330	ug/Kg	03/02/13	DD	SW 8270
Pyrene	2600	330	ug/Kg	03/02/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	81		%	03/02/13	DD	30 - 130 %
% Nitrobenzene-d5	83		%	03/02/13	DD	30 - 130 %
% Terphenyl-d14	94		%	03/02/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 15, 2013
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

March 15, 2013

QA/QC Data

SDG I.D.: GBD41558

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 221964, QC Sample No: BD39023 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.006	0.005	NC	99.1	98.2	0.9	102	101	1.0	75 - 125	20	
Barium	BRL	0.064	0.064	0	100	102	2.0	100	98.8	1.2	75 - 125	20	
Cadmium	BRL	<0.005	<0.005	NC	102	101	1.0	102	100	2.0	75 - 125	20	
Chromium	BRL	<0.010	<0.010	NC	98.6	97.6	1.0	100	99.3	0.7	75 - 125	20	
Lead	BRL	<0.010	<0.010	NC	100	99.5	0.5	101	100	1.0	75 - 125	20	
Selenium	BRL	<0.020	<0.020	NC	100	99.9	0.1	103	102	1.0	75 - 125	20	
Silver	BRL	<0.010	<0.010	NC	96.6	96.7	0.1	99.4	98.2	1.2	75 - 125	20	
QA/QC Batch 222477, QC Sample No: BD41561 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)													
ICP Metals - Soil													
Arsenic	BRL	2.9	2.46	NC	93.7	97.4	3.9	88.0	89.2	1.4	75 - 125	30	
Barium	BRL	55.3	56.8	2.70	103	109	5.7	104	111	6.5	75 - 125	30	
Cadmium	BRL	<0.41	<0.46	NC	96.6	99.1	2.6	90.4	91.1	0.8	75 - 125	30	
Chromium	BRL	19.2	19.2	0	101	104	2.9	95.8	97.2	1.5	75 - 125	30	
Lead	BRL	8.58	8.51	0.80	100	101	1.0	91.1	92.1	1.1	75 - 125	30	
Selenium	BRL	<1.6	<1.9	NC	93.1	97.7	4.8	92.1	94.6	2.7	75 - 125	30	
Silver	BRL	<0.41	<0.46	NC	98.2	102	3.8	96.0	96.7	0.7	75 - 125	30	
QA/QC Batch 222535, QC Sample No: BD41566 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)													
Mercury - Soil	BRL	0.13	0.17	NC	101	99.8	1.2	>125	>125	NC	70 - 130	30	m
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 222538, QC Sample No: BD41825 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)													
Mercury - Water	BRL	0.0003	<0.0002	NC	118	120	1.7	123	120	2.5	70 - 130	20	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 222565, QC Sample No: BD41971 (BD41566, BD41567)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.004	<0.004	NC	97.5	97.6	0.1	98.0	97.7	0.3	75 - 125	20	
Barium	BRL	0.052	0.049	NC	97.2	96.1	1.1	97.0	94.7	2.4	75 - 125	20	
Cadmium	BRL	<0.005	<0.005	NC	104	105	1.0	104	104	0.0	75 - 125	20	
Chromium	BRL	<0.010	<0.010	NC	98.9	99.1	0.2	99.8	98.5	1.3	75 - 125	20	
Lead	BRL	<0.010	<0.010	NC	99.9	101	1.1	101	100	1.0	75 - 125	20	
Selenium	BRL	<0.020	<0.020	NC	96.8	96.8	0.0	96.0	95.7	0.3	75 - 125	20	
Silver	BRL	<0.010	<0.010	NC	94.9	94.1	0.8	95.5	93.6	2.0	75 - 125	20	

m = This parameter is outside laboratory ms/msd 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

March 15, 2013

QA/QC Data

SDG I.D.: GBD41558

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 222468, QC Sample No: BD41560 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)									
Polychlorinated Biphenyls - Soil									
PCB-1016	ND	85	84	1.2	84	79	6.1	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	85	78	8.6	83	72	14.2	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	89	96	92	4.3	92	90	2.2	30 - 150	30
% TCMX (Surrogate Rec)	85	91	89	2.2	90	87	3.4	30 - 150	30
QA/QC Batch 222469, QC Sample No: BD41560 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)									
TPH by GC (Extractable Products) - Soil									
Ext. Petroleum HC	ND	80	70	13.3	82	90	9.3	60 - 120	30
% n-Pentacosane	84	85	91	6.8	91	101	10.4	50 - 150	30
QA/QC Batch 222467, QC Sample No: BD41560 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)									
Polynuclear Aromatic HC - Soil									
2-Methylnaphthalene	ND	82	82	0.0	77	84	8.7	30 - 130	30
Acenaphthene	ND	79	78	1.3	83	89	7.0	30 - 130	30
Acenaphthylene	ND	82	82	0.0	83	87	4.7	30 - 130	30
Anthracene	ND	85	84	1.2	84	92	9.1	30 - 130	30
Benz(a)anthracene	ND	90	89	1.1	88	100	12.8	30 - 130	30
Benzo(a)pyrene	ND	79	79	0.0	82	88	7.1	30 - 130	30
Benzo(b)fluoranthene	ND	87	88	1.1	96	103	7.0	30 - 130	30
Benzo(ghi)perylene	ND	90	85	5.7	81	106	26.7	30 - 130	30
Benzo(k)fluoranthene	ND	85	83	2.4	90	94	4.3	30 - 130	30
Chrysene	ND	82	82	0.0	92	104	12.2	30 - 130	30
Dibenz(a,h)anthracene	ND	90	86	4.5	81	108	28.6	30 - 130	30
Fluoranthene	ND	83	83	0.0	95	99	4.1	30 - 130	30
Fluorene	ND	82	82	0.0	81	89	9.4	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	90	86	4.5	82	108	27.4	30 - 130	30
Naphthalene	ND	82	84	2.4	78	82	5.0	30 - 130	30
Phenanthrene	ND	86	85	1.2	87	95	8.8	30 - 130	30
Pyrene	ND	83	84	1.2	101	103	2.0	30 - 130	30
% 2-Fluorobiphenyl	79	81	80	1.2	84	89	5.8	30 - 130	30
% Nitrobenzene-d5	79	81	80	1.2	74	80	7.8	30 - 130	30
% Terphenyl-d14	86	88	86	2.3	109	105	3.7	30 - 130	30

QA/QC Data

SDG I.D.: GBD41558

QA/QC Batch 222871, QC Sample No: BD41563 (BD41563, BD41564, BD41565, BD41566, BD41567)

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	101	95	6.1	99	104	4.9	70 - 130	30	
1,1,1-Trichloroethane	ND	101	92	9.3	100	104	3.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	94	90	4.3	90	96	6.5	70 - 130	30	
1,1,2-Trichloroethane	ND	101	96	5.1	95	99	4.1	70 - 130	30	
1,1-Dichloroethane	ND	103	96	7.0	100	104	3.9	70 - 130	30	
1,1-Dichloroethene	ND	100	94	6.2	57	53	7.3	70 - 130	30	m
1,1-Dichloropropene	ND	100	91	9.4	103	106	2.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	96	88	8.7	99	103	4.0	70 - 130	30	
1,2,3-Trichloropropane	ND	92	94	2.2	90	95	5.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	91	82	10.4	100	104	3.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	102	92	10.3	103	107	3.8	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	102	98	4.0	80	88	9.5	70 - 130	30	
1,2-Dibromoethane	ND	98	94	4.2	94	97	3.1	70 - 130	30	
1,2-Dichlorobenzene	ND	97	89	8.6	98	102	4.0	70 - 130	30	
1,2-Dichloroethane	ND	99	94	5.2	101	103	2.0	70 - 130	30	
1,2-Dichloropropane	ND	100	94	6.2	100	102	2.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	100	91	9.4	103	107	3.8	70 - 130	30	
1,3-Dichlorobenzene	ND	98	89	9.6	102	106	3.8	70 - 130	30	
1,3-Dichloropropane	ND	101	95	6.1	97	100	3.0	70 - 130	30	
1,4-Dichlorobenzene	ND	96	88	8.7	99	103	4.0	70 - 130	30	
2,2-Dichloropropane	ND	103	93	10.2	91	95	4.3	70 - 130	30	
2-Chlorotoluene	ND	102	93	9.2	102	105	2.9	70 - 130	30	
2-Hexanone	ND	77	74	4.0	52	55	5.6	70 - 130	30	m
2-Isopropyltoluene	ND	100	90	10.5	103	107	3.8	70 - 130	30	
4-Chlorotoluene	ND	95	88	7.7	102	106	3.8	70 - 130	30	
4-Methyl-2-pentanone	ND	99	96	3.1	80	84	4.9	70 - 130	30	
Acetone	ND	62	50	21.4	<40	<40	NC	70 - 130	30	l,m
Acrylonitrile	ND	98	97	1.0	82	96	15.7	70 - 130	30	
Benzene	ND	98	91	7.4	100	103	3.0	70 - 130	30	
Bromobenzene	ND	97	91	6.4	98	104	5.9	70 - 130	30	
Bromochloromethane	ND	100	94	6.2	98	99	1.0	70 - 130	30	
Bromodichloromethane	ND	103	97	6.0	99	101	2.0	70 - 130	30	
Bromoform	ND	100	95	5.1	88	91	3.4	70 - 130	30	
Bromomethane	ND	102	87	15.9	46	46	0.0	70 - 130	30	m
Carbon Disulfide	ND	96	86	11.0	56	53	5.5	70 - 130	30	m
Carbon tetrachloride	ND	103	95	8.1	98	102	4.0	70 - 130	30	
Chlorobenzene	ND	100	93	7.3	102	104	1.9	70 - 130	30	
Chloroethane	ND	114	101	12.1	<40	<40	NC	70 - 130	30	m
Chloroform	ND	102	94	8.2	99	102	3.0	70 - 130	30	
Chloromethane	ND	96	84	13.3	105	103	1.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	100	94	6.2	98	102	4.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	99	92	7.3	96	98	2.1	70 - 130	30	
Dibromochloromethane	ND	104	97	7.0	95	98	3.1	70 - 130	30	
Dibromomethane	ND	102	96	6.1	96	101	5.1	70 - 130	30	
Dichlorodifluoromethane	ND	103	91	12.4	98	105	6.9	70 - 130	30	
Ethylbenzene	ND	99	90	9.5	102	105	2.9	70 - 130	30	
Hexachlorobutadiene	ND	96	83	14.5	102	108	5.7	70 - 130	30	
Isopropylbenzene	ND	101	92	9.3	102	107	4.8	70 - 130	30	
m&p-Xylene	ND	99	91	8.4	102	106	3.8	70 - 130	30	
Methyl ethyl ketone	ND	67	65	3.0	45	46	2.2	70 - 130	30	l,m

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl t-butyl ether (MTBE)	ND	95	89	6.5	100	103	3.0	70 - 130	30	
Methylene chloride	ND	92	84	9.1	88	91	3.4	70 - 130	30	
Naphthalene	ND	98	92	6.3	93	97	4.2	70 - 130	30	
n-Butylbenzene	ND	97	87	10.9	103	107	3.8	70 - 130	30	
n-Propylbenzene	ND	103	93	10.2	103	107	3.8	70 - 130	30	
o-Xylene	ND	95	87	8.8	101	105	3.9	70 - 130	30	
p-Isopropyltoluene	ND	101	91	10.4	103	109	5.7	70 - 130	30	
sec-Butylbenzene	ND	99	89	10.6	103	107	3.8	70 - 130	30	
Styrene	ND	91	83	9.2	101	104	2.9	70 - 130	30	
tert-Butylbenzene	ND	104	94	10.1	103	108	4.7	70 - 130	30	
Tetrachloroethene	ND	100	90	10.5	103	106	2.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	92	89	3.3	86	91	5.6	70 - 130	30	
Toluene	ND	98	91	7.4	100	104	3.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	102	94	8.2	104	108	3.8	70 - 130	30	
trans-1,3-Dichloropropene	ND	99	93	6.3	93	97	4.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	98	94	4.2	77	82	6.3	70 - 130	30	
Trichloroethene	ND	103	96	7.0	98	102	4.0	70 - 130	30	
Trichlorofluoromethane	ND	108	98	9.7	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	104	91	13.3	76	69	9.7	70 - 130	30	m
Vinyl chloride	ND	104	95	9.0	92	96	4.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	99	99	0.0	97	97	0.0	70 - 130	30	
% Bromofluorobenzene	103	101	99	2.0	101	99	2.0	70 - 130	30	
% Dibromofluoromethane	97	102	102	0.0	99	96	3.1	70 - 130	30	
% Toluene-d8	101	101	101	0.0	100	100	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 222968, QC Sample No: BD41567 (BD41567)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	106	104	1.9	103	105	1.9	70 - 130	30	
1,1,1-Trichloroethane	ND	90	90	0.0	93	88	5.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	88	89	1.1	90	91	1.1	70 - 130	30	
1,1,2-Trichloroethane	ND	105	103	1.9	100	100	0.0	70 - 130	30	
1,1-Dichloroethane	ND	98	97	1.0	100	94	6.2	70 - 130	30	
1,1-Dichloroethene	ND	100	100	0.0	75	75	0.0	70 - 130	30	
1,1-Dichloropropene	ND	98	94	4.2	101	96	5.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	107	103	3.8	102	107	4.8	70 - 130	30	
1,2,3-Trichloropropane	ND	84	87	3.5	88	87	1.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	107	97	9.8	101	109	7.6	70 - 130	30	
1,2,4-Trimethylbenzene	ND	100	95	5.1	97	97	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	99	107	7.8	94	94	0.0	70 - 130	30	
1,2-Dibromoethane	ND	106	104	1.9	103	104	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	101	98	3.0	99	101	2.0	70 - 130	30	
1,2-Dichloroethane	ND	100	98	2.0	101	101	0.0	70 - 130	30	
1,2-Dichloropropane	ND	102	98	4.0	100	99	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	98	94	4.2	98	98	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	102	97	5.0	99	103	4.0	70 - 130	30	
1,3-Dichloropropane	ND	97	96	1.0	96	97	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	101	95	6.1	98	102	4.0	70 - 130	30	
2,2-Dichloropropane	ND	109	86	23.6	81	77	5.1	70 - 130	30	
2-Chlorotoluene	ND	103	98	5.0	102	101	1.0	70 - 130	30	
2-Hexanone	ND	69	75	8.3	54	51	5.7	70 - 130	30	l,m
2-Isopropyltoluene	ND	100	95	5.1	102	101	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBD41558

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorotoluene	ND	99	93	6.3	99	100	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	88	93	5.5	83	78	6.2	70 - 130	30	
Acetone	ND	47	55	15.7	<40	<40	NC	70 - 130	30	l,m
Acrylonitrile	ND	95	104	9.0	101	96	5.1	70 - 130	30	
Benzene	ND	97	93	4.2	99	97	2.0	70 - 130	30	
Bromobenzene	ND	104	100	3.9	104	104	0.0	70 - 130	30	
Bromochloromethane	ND	107	95	11.9	96	93	3.2	70 - 130	30	
Bromodichloromethane	ND	105	102	2.9	100	100	0.0	70 - 130	30	
Bromoform	ND	109	111	1.8	105	104	1.0	70 - 130	30	
Bromomethane	ND	97	104	7.0	53	57	7.3	70 - 130	30	m
Carbon Disulfide	ND	89	89	0.0	65	65	0.0	70 - 130	30	m
Carbon tetrachloride	ND	101	99	2.0	102	97	5.0	70 - 130	30	
Chlorobenzene	ND	103	99	4.0	103	103	0.0	70 - 130	30	
Chloroethane	ND	108	104	3.8	<40	<40	NC	70 - 130	30	m
Chloroform	ND	90	90	0.0	92	89	3.3	70 - 130	30	
Chloromethane	ND	78	81	3.8	92	83	10.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	128	91	33.8	93	89	4.4	70 - 130	30	r
cis-1,3-Dichloropropene	ND	97	94	3.1	94	93	1.1	70 - 130	30	
Dibromochloromethane	ND	108	108	0.0	101	102	1.0	70 - 130	30	
Dibromomethane	ND	99	98	1.0	98	97	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	83	83	0.0	86	80	7.2	70 - 130	30	
Ethylbenzene	ND	102	99	3.0	107	106	0.9	70 - 130	30	
Hexachlorobutadiene	ND	111	106	4.6	115	115	0.0	70 - 130	30	
Isopropylbenzene	ND	101	97	4.0	102	100	2.0	70 - 130	30	
m&p-Xylene	ND	106	101	4.8	108	108	0.0	70 - 130	30	
Methyl ethyl ketone	ND	52	59	12.6	41	<40	NC	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	99	99	0.0	108	107	0.9	70 - 130	30	
Methylene chloride	ND	90	90	0.0	97	91	6.4	70 - 130	30	
Naphthalene	ND	98	100	2.0	97	98	1.0	70 - 130	30	
n-Butylbenzene	ND	94	88	6.6	92	94	2.2	70 - 130	30	
n-Propylbenzene	ND	105	100	4.9	102	100	2.0	70 - 130	30	
o-Xylene	ND	99	96	3.1	108	106	1.9	70 - 130	30	
p-Isopropyltoluene	ND	105	98	6.9	102	102	0.0	70 - 130	30	
sec-Butylbenzene	ND	97	92	5.3	99	99	0.0	70 - 130	30	
Styrene	ND	94	91	3.2	106	105	0.9	70 - 130	30	
tert-Butylbenzene	ND	103	98	5.0	103	102	1.0	70 - 130	30	
Tetrachloroethene	ND	112	109	2.7	115	114	0.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	75	83	10.1	79	73	7.9	70 - 130	30	
Toluene	ND	100	95	5.1	101	99	2.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	101	100	1.0	111	103	7.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	97	95	2.1	93	92	1.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	88	92	4.4	76	75	1.3	70 - 130	30	
Trichloroethene	ND	112	107	4.6	106	104	1.9	70 - 130	30	
Trichlorofluoromethane	ND	104	103	1.0	<40	<40	NC	70 - 130	30	m
Trichlorotrifluoroethane	ND	109	110	0.9	108	109	0.9	70 - 130	30	
Vinyl chloride	ND	95	95	0.0	87	81	7.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	97	100	100	0.0	101	98	3.0	70 - 130	30	
% Bromofluorobenzene	102	98	99	1.0	100	98	2.0	70 - 130	30	
% Dibromofluoromethane	97	99	104	4.9	101	99	2.0	70 - 130	30	
% Toluene-d8	102	102	101	1.0	101	101	0.0	70 - 130	30	

Comment:

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

QA/QC Data

SDG I.D.: GBD41558

QA/QC Batch 223559, QC Sample No: BD41889 (BD41558, BD41559)

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,1,1,2-Tetrachloroethane	ND	97	110	12.6				70 - 130	30
1,1,1-Trichloroethane	ND	96	108	11.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	89	95	6.5				70 - 130	30
1,1,2-Trichloroethane	ND	102	107	4.8				70 - 130	30
1,1-Dichloroethane	ND	98	115	16.0				70 - 130	30
1,1-Dichloroethene	ND	102	119	15.4				70 - 130	30
1,1-Dichloropropene	ND	96	107	10.8				70 - 130	30
1,2,3-Trichlorobenzene	ND	104	96	8.0				70 - 130	30
1,2,3-Trichloropropane	ND	80	101	23.2				70 - 130	30
1,2,4-Trichlorobenzene	ND	98	96	2.1				70 - 130	30
1,2,4-Trimethylbenzene	ND	88	101	13.8				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	97	96	1.0				70 - 130	30
1,2-Dibromoethane	ND	103	103	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	92	102	10.3				70 - 130	30
1,2-Dichloroethane	ND	96	100	4.1				70 - 130	30
1,2-Dichloropropane	ND	94	103	9.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	86	100	15.1				70 - 130	30
1,3-Dichlorobenzene	ND	92	103	11.3				70 - 130	30
1,3-Dichloropropane	ND	92	98	6.3				70 - 130	30
1,4-Dichlorobenzene	ND	93	103	10.2				70 - 130	30
2,2-Dichloropropane	ND	99	109	9.6				70 - 130	30
2-Chlorotoluene	ND	87	100	13.9				70 - 130	30
2-Hexanone	ND	77	78	1.3				70 - 130	30
2-Isopropyltoluene	ND	87	100	13.9				70 - 130	30
4-Chlorotoluene	ND	87	100	13.9				70 - 130	30
4-Methyl-2-pentanone	ND	95	93	2.1				70 - 130	30
Acetone	ND	94	93	1.1				70 - 130	30
Acrylonitrile	ND	106	115	8.1				70 - 130	30
Benzene	ND	94	103	9.1				70 - 130	30
Bromobenzene	ND	90	102	12.5				70 - 130	30
Bromochloromethane	ND	107	114	6.3				70 - 130	30
Bromodichloromethane	ND	98	107	8.8				70 - 130	30
Bromoform	ND	108	113	4.5				70 - 130	30
Bromomethane	ND	118	124	5.0				70 - 130	30
Carbon Disulfide	ND	96	112	15.4				70 - 130	30
Carbon tetrachloride	ND	99	112	12.3				70 - 130	30
Chlorobenzene	ND	93	105	12.1				70 - 130	30
Chloroethane	ND	109	126	14.5				70 - 130	30
Chloroform	ND	99	107	7.8				70 - 130	30
Chloromethane	ND	91	97	6.4				70 - 130	30
cis-1,2-Dichloroethene	ND	112	119	6.1				70 - 130	30
cis-1,3-Dichloropropene	ND	96	103	7.0				70 - 130	30
Dibromochloromethane	ND	100	109	8.6				70 - 130	30
Dibromomethane	ND	104	106	1.9				70 - 130	30
Dichlorodifluoromethane	ND	91	102	11.4				70 - 130	30
Ethylbenzene	ND	90	101	11.5				70 - 130	30
Hexachlorobutadiene	ND	91	95	4.3				70 - 130	30
Isopropylbenzene	ND	87	103	16.8				70 - 130	30
m&p-Xylene	ND	92	104	12.2				70 - 130	30
Methyl ethyl ketone	ND	82	77	6.3				70 - 130	30

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl t-butyl ether (MTBE)	ND	94	100	6.2				70 - 130	30	
Methylene chloride	ND	103	117	12.7				70 - 130	30	
Naphthalene	ND	109	88	21.3				70 - 130	30	
n-Butylbenzene	ND	88	98	10.8				70 - 130	30	
n-Propylbenzene	ND	90	105	15.4				70 - 130	30	
o-Xylene	ND	96	111	14.5				70 - 130	30	
p-Isopropyltoluene	ND	89	101	12.6				70 - 130	30	
sec-Butylbenzene	ND	85	99	15.2				70 - 130	30	
Styrene	ND	96	107	10.8				70 - 130	30	
tert-Butylbenzene	ND	87	100	13.9				70 - 130	30	
Tetrachloroethene	ND	94	108	13.9				70 - 130	30	
Tetrahydrofuran (THF)	ND	97	95	2.1				70 - 130	30	
Toluene	ND	94	104	10.1				70 - 130	30	
trans-1,2-Dichloroethene	ND	97	120	21.2				70 - 130	30	
trans-1,3-Dichloropropene	ND	99	102	3.0				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	101	97	4.0				70 - 130	30	
Trichloroethene	ND	101	111	9.4				70 - 130	30	
Trichlorofluoromethane	ND	109	121	10.4				70 - 130	30	
Trichlorotrifluoroethane	ND	106	121	13.2				70 - 130	30	
Vinyl chloride	ND	92	102	10.3				70 - 130	30	
% 1,2-dichlorobenzene-d4	99	100	100	0.0				70 - 130	30	
% Bromofluorobenzene	94	98	96	2.1				70 - 130	30	
% Dibromofluoromethane	100	106	101	4.8				70 - 130	30	
% Toluene-d8	98	99	97	2.0				70 - 130	30	

Comment:

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

QA/QC Batch 222746, QC Sample No: BD42394 (BD41561, BD41562)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	109	112	2.7	109	108	0.9	70 - 130	30	
1,1,1-Trichloroethane	ND	108	114	5.4	110	107	2.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	103	104	1.0	108	113	4.5	70 - 130	30	
1,1,2-Trichloroethane	ND	107	111	3.7	107	114	6.3	70 - 130	30	
1,1-Dichloroethane	ND	111	116	4.4	111	110	0.9	70 - 130	30	
1,1-Dichloroethene	ND	108	114	5.4	102	102	0.0	70 - 130	30	
1,1-Dichloropropene	ND	108	108	0.0	106	113	6.4	70 - 130	30	
1,2,3-Trichlorobenzene	ND	95	102	7.1	103	105	1.9	70 - 130	30	
1,2,3-Trichloropropane	ND	102	105	2.9	104	104	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	86	89	3.4	100	101	1.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	103	106	2.9	109	108	0.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	109	113	3.6	103	113	9.3	70 - 130	30	
1,2-Dibromoethane	ND	106	111	4.6	108	111	2.7	70 - 130	30	
1,2-Dichlorobenzene	ND	101	102	1.0	105	108	2.8	70 - 130	30	
1,2-Dichloroethane	ND	103	107	3.8	101	106	4.8	70 - 130	30	
1,2-Dichloropropane	ND	105	110	4.7	106	112	5.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	101	103	2.0	108	108	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	100	101	1.0	106	106	0.0	70 - 130	30	
1,3-Dichloropropane	ND	110	112	1.8	109	110	0.9	70 - 130	30	
1,4-Dichlorobenzene	ND	97	98	1.0	105	107	1.9	70 - 130	30	
2,2-Dichloropropane	ND	110	111	0.9	105	100	4.9	70 - 130	30	
2-Chlorotoluene	ND	100	103	3.0	108	109	0.9	70 - 130	30	
2-Hexanone	ND	74	77	4.0	65	66	1.5	70 - 130	30	m
2-Isopropyltoluene	ND	103	106	2.9	111	112	0.9	70 - 130	30	

QA/QC Data

SDG I.D.: GBD41558

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Chlorotoluene	ND	98	101	3.0	108	108	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	105	106	0.9	97	101	4.0	70 - 130	30	
Acetone	ND	70	74	5.6	<40	<40	NC	70 - 130	30	m
Acrylonitrile	ND	109	109	0.0	106	105	0.9	70 - 130	30	
Benzene	ND	105	108	2.8	109	112	2.7	70 - 130	30	
Bromobenzene	ND	102	105	2.9	107	107	0.0	70 - 130	30	
Bromochloromethane	ND	107	114	6.3	107	108	0.9	70 - 130	30	
Bromodichloromethane	ND	108	111	2.7	103	108	4.7	70 - 130	30	
Bromoform	ND	118	120	1.7	102	104	1.9	70 - 130	30	
Bromomethane	ND	106	122	14.0	82	92	11.5	70 - 130	30	
Carbon Disulfide	ND	105	110	4.7	104	105	1.0	70 - 130	30	
Carbon tetrachloride	ND	115	117	1.7	106	110	3.7	70 - 130	30	
Chlorobenzene	ND	104	107	2.8	109	110	0.9	70 - 130	30	
Chloroethane	ND	115	120	4.3	56	53	5.5	70 - 130	30	m
Chloroform	ND	108	112	3.6	106	107	0.9	70 - 130	30	
Chloromethane	ND	124	127	2.4	120	114	5.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	108	116	7.1	112	110	1.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	102	107	4.8	103	107	3.8	70 - 130	30	
Dibromochloromethane	ND	111	115	3.5	104	107	2.8	70 - 130	30	
Dibromomethane	ND	107	112	4.6	106	108	1.9	70 - 130	30	
Dichlorodifluoromethane	ND	143	150	4.8	114	116	1.7	70 - 130	30	l
Ethylbenzene	ND	102	103	1.0	109	110	0.9	70 - 130	30	
Hexachlorobutadiene	ND	96	101	5.1	108	108	0.0	70 - 130	30	
Isopropylbenzene	ND	107	109	1.9	110	111	0.9	70 - 130	30	
m&p-Xylene	ND	102	105	2.9	110	110	0.0	70 - 130	30	
Methyl ethyl ketone	ND	66	67	1.5	52	51	1.9	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	99	106	6.8	105	104	1.0	70 - 130	30	
Methylene chloride	ND	101	109	7.6	103	103	0.0	70 - 130	30	
Naphthalene	ND	104	110	5.6	104	111	6.5	70 - 130	30	
n-Butylbenzene	ND	99	101	2.0	113	112	0.9	70 - 130	30	
n-Propylbenzene	ND	105	108	2.8	108	108	0.0	70 - 130	30	
o-Xylene	ND	112	113	0.9	110	109	0.9	70 - 130	30	
p-Isopropyltoluene	ND	103	106	2.9	112	112	0.0	70 - 130	30	
sec-Butylbenzene	ND	104	106	1.9	112	112	0.0	70 - 130	30	
Styrene	ND	103	105	1.9	107	106	0.9	70 - 130	30	
tert-Butylbenzene	ND	106	109	2.8	111	112	0.9	70 - 130	30	
Tetrachloroethene	ND	102	105	2.9	110	107	2.8	70 - 130	30	
Tetrahydrofuran (THF)	ND	103	108	4.7	98	100	2.0	70 - 130	30	
Toluene	ND	102	107	4.8	111	112	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	107	112	4.6	109	105	3.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	103	104	1.0	102	106	3.8	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	108	110	1.8	100	101	1.0	70 - 130	30	
Trichloroethene	ND	110	114	3.6	104	107	2.8	70 - 130	30	
Trichlorofluoromethane	ND	120	126	4.9	60	60	0.0	70 - 130	30	m
Trichlorotrifluoroethane	ND	114	122	6.8	108	106	1.9	70 - 130	30	
Vinyl chloride	ND	117	123	5.0	116	115	0.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	102	100	2.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	96	101	100	1.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	100	100	102	2.0	97	99	2.0	70 - 130	30	
% Toluene-d8	97	99	102	3.0	99	103	4.0	70 - 130	30	

Comment:

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

QA/QC Data

SDG I.D.: GBD41558

QA/QC Batch 223554, QC Sample No: BD45837 (BD41560)

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	107	114	6.3	98	83	16.6	70 - 130	30	
1,1,1-Trichloroethane	ND	115	120	4.3	101	82	20.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	103	110	6.6	108	96	11.8	70 - 130	30	
1,1,2-Trichloroethane	ND	109	117	7.1	88	79	10.8	70 - 130	30	
1,1-Dichloroethane	ND	111	119	7.0	97	82	16.8	70 - 130	30	
1,1-Dichloroethene	ND	113	121	6.8	96	77	22.0	70 - 130	30	
1,1-Dichloropropene	ND	109	118	7.9	94	74	23.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	104	106	1.9	49	45	8.5	70 - 130	30	m
1,2,3-Trichloropropane	ND	101	106	4.8	108	95	12.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	99	102	3.0	57	51	11.1	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	106	112	5.5	53	<40	NC	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	114	120	5.1	97	88	9.7	70 - 130	30	
1,2-Dibromoethane	ND	102	110	7.5	85	77	9.9	70 - 130	30	
1,2-Dichlorobenzene	ND	102	108	5.7	76	62	20.3	70 - 130	30	m
1,2-Dichloroethane	ND	106	112	5.5	92	82	11.5	70 - 130	30	
1,2-Dichloropropane	ND	106	116	9.0	96	80	18.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	104	110	5.6	62	43	36.2	70 - 130	30	m,r
1,3-Dichlorobenzene	ND	102	107	4.8	89	74	18.4	70 - 130	30	
1,3-Dichloropropane	ND	102	108	5.7	93	84	10.2	70 - 130	30	
1,4-Dichlorobenzene	ND	102	107	4.8	87	73	17.5	70 - 130	30	
2,2-Dichloropropane	ND	103	108	4.7	107	84	24.1	70 - 130	30	
2-Chlorotoluene	ND	105	111	5.6	90	67	29.3	70 - 130	30	m
2-Hexanone	ND	82	83	1.2	40	<40	NC	70 - 130	30	m
2-Isopropyltoluene	ND	102	109	6.6	98	77	24.0	70 - 130	30	
4-Chlorotoluene	ND	100	105	4.9	90	68	27.8	70 - 130	30	m
4-Methyl-2-pentanone	ND	102	104	1.9	42	<40	NC	70 - 130	30	m
Acetone	ND	80	83	3.7	59	53	10.7	70 - 130	30	m
Acrylonitrile	ND	108	109	0.9	57	52	9.2	70 - 130	30	m
Benzene	ND	107	115	7.2	94	77	19.9	70 - 130	30	
Bromobenzene	ND	103	111	7.5	97	79	20.5	70 - 130	30	
Bromochloromethane	ND	110	117	6.2	92	81	12.7	70 - 130	30	
Bromodichloromethane	ND	108	120	10.5	92	77	17.8	70 - 130	30	
Bromoform	ND	116	121	4.2	81	75	7.7	70 - 130	30	
Bromomethane	ND	114	131	13.9	63	50	23.0	70 - 130	30	l,m
Carbon Disulfide	ND	115	122	5.9	94	76	21.2	70 - 130	30	
Carbon tetrachloride	ND	111	121	8.6	101	80	23.2	70 - 130	30	
Chlorobenzene	ND	104	111	6.5	89	74	18.4	70 - 130	30	
Chloroethane	ND	118	126	6.6	99	83	17.6	70 - 130	30	
Chloroform	ND	111	118	6.1	96	82	15.7	70 - 130	30	
Chloromethane	ND	125	133	6.2	89	73	19.8	70 - 130	30	l
cis-1,2-Dichloroethene	ND	110	118	7.0	94	77	19.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	106	114	7.3	79	69	13.5	70 - 130	30	m
Dibromochloromethane	ND	110	117	6.2	91	82	10.4	70 - 130	30	
Dibromomethane	ND	106	114	7.3	89	79	11.9	70 - 130	30	
Dichlorodifluoromethane	ND	>150	>150	NC	92	73	23.0	70 - 130	30	l
Ethylbenzene	ND	103	108	4.7	88	69	24.2	70 - 130	30	m
Hexachlorobutadiene	ND	102	106	3.8	68	54	23.0	70 - 130	30	m
Isopropylbenzene	ND	108	114	5.4	108	83	26.2	70 - 130	30	
m&p-Xylene	ND	104	108	3.8	64	48	28.6	70 - 130	30	m
Methyl ethyl ketone	ND	83	82	1.2	62	53	15.7	70 - 130	30	m

QA/QC Data

SDG I.D.: GBD41558

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl t-butyl ether (MTBE)	ND	106	101	4.8	110	99	10.5	70 - 130	30	
Methylene chloride	ND	104	112	7.4	90	78	14.3	70 - 130	30	
Naphthalene	ND	106	113	6.4	NC	NC	NC	70 - 130	30	
n-Butylbenzene	ND	106	111	4.6	81	57	34.8	70 - 130	30	m,r
n-Propylbenzene	ND	107	114	6.3	101	75	29.5	70 - 130	30	
o-Xylene	ND	111	116	4.4	80	63	23.8	70 - 130	30	m
p-Isopropyltoluene	ND	107	113	5.5	94	68	32.1	70 - 130	30	m,r
sec-Butylbenzene	ND	104	110	5.6	98	73	29.2	70 - 130	30	
Styrene	ND	105	110	4.7	64	46	32.7	70 - 130	30	m,r
tert-Butylbenzene	ND	107	113	5.5	107	85	22.9	70 - 130	30	
Tetrachloroethene	ND	109	111	1.8	100	80	22.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	106	109	2.8	94	89	5.5	70 - 130	30	
Toluene	ND	106	115	8.1	85	68	22.2	70 - 130	30	m
trans-1,2-Dichloroethene	ND	112	120	6.9	96	77	22.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	105	113	7.3	81	71	13.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	105	113	7.3	90	77	15.6	70 - 130	30	
Trichloroethene	ND	111	121	8.6	94	76	21.2	70 - 130	30	
Trichlorofluoromethane	ND	123	132	7.1	100	80	22.2	70 - 130	30	l
Trichlorotrifluoroethane	ND	112	117	4.4	102	79	25.4	70 - 130	30	
Vinyl chloride	ND	120	130	8.0	94	76	21.2	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	100	101	1.0	98	98	0.0	70 - 130	30	
% Bromofluorobenzene	96	100	100	0.0	91	92	1.1	70 - 130	30	
% Dibromofluoromethane	98	101	102	1.0	101	104	2.9	70 - 130	30	
% Toluene-d8	95	100	102	2.0	98	97	1.0	70 - 130	30	

Comment:

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

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
March 15, 2013

Sample Criteria Exceedences Report

GBD41558 - MAGU-DAS

Requested Criteria: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD41559	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.204	0.010	0.15	0.15	mg/L
BD41562	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	808	3.9	400	400	mg/Kg
BD41565	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1100	260	1000	1000	ug/Kg
BD41566	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1500	280	1000	1000	ug/Kg
BD41566	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1500	280	1000	1000	ug/Kg
BD41566	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1700	280	1000	1000	ug/Kg
BD41566	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2500	280	1000	1000	ug/Kg
BD41566	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2500	280	1000	1000	ug/Kg
BD41566	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1800	280	1000	1000	ug/Kg
BD41566	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1800	280	1000	1000	ug/Kg
BD41566	$PCB_SMR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1600	410	1000	1000	ug/Kg
BD41567	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1800	330	1000	1000	ug/Kg
BD41567	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1800	330	1000	1000	ug/Kg
BD41567	$8100SMR	Chrysene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1900	330	1000	1000	ug/Kg
BD41567	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	2400	330	1000	1000	ug/Kg
BD41567	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	2400	330	1000	1000	ug/Kg
BD41567	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg)	1900	330	1000	1000	ug/Kg
BD41567	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/kg	1900	330	1000	1000	ug/Kg

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGU-DAS

Project Location: MIDDLETOWN PUMP STATION **Project Number:**

Laboratory Sample ID(s): BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567

Sampling Date(s): 3/1/2013

RCP Methods Used:

☑ 1311/1312	☑ 6010	☐ 7000	☐ 7196	☑ 7470/7471	☐ 8081	☐ EPH	☐ TO15
☑ 8082	☐ 8151	☑ 8260	☑ 8270	☑ ETPH	☐ 9010/9012	☐ VPH	

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.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	☐ Yes ☐ No ☑ NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	☑ Yes ☐ No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	☑ Yes ☐ No ☐ NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: Mercury Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☑ Yes ☐ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Friday, March 15, 2013

Printed Name: Maryam Taylor

Position: Project Manager

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
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 03/04/13-1 (BD41558, BD41559, BD41560)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36

Printed Name Jeff Bucko
Position: Chemist
Date: 3/4/2013

Instrument: Au-fid1 03/04/13-2 (BD41561, BD41562, BD41563, BD41564, BD41565, BD41567)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C10

Printed Name Jeff Bucko
Position: Chemist
Date: 3/4/2013

Instrument: Au-xl1 03/06/13-1 (BD41566)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 3/6/2013

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

QC (Site Specific)

---------- Sample No: BD41560, QA/QC Batch: 222469 ----------

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 60 - 120 with the following exceptions: None.

All MSD recoveries were within 60 - 120 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Mercury Narration

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

QC Batch 222535 (Samples: BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567): -----

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Mercury)

Instrument: Merlin 03/05/13-1 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Joe Andrulat
Position: Chemist
Date: 3/5/2013

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

QC (Site Specific)

---------- Sample No: BD41566, QA/QC Batch: 222535 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: Mercury(>125%)

All MSD recoveries were within 75 - 125 with the following exceptions: Mercury(>125%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BD41825, QA/QC Batch: 222538 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

ICP Narration

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

Instrument: Arcos 03/04/13-1 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/4/2013

Instrument: Blue 03/04/13-1 (BD41559, BD41560, BD41562, BD41566)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

Printed Name	Laura Kinnin
Position:	Chemist
Date:	3/4/2013

QC (Site Specific)

---------- Sample No: BD41561, QA/QC Batch: 222477 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD39023, QA/QC Batch: 221964 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD41971, QA/QC Batch: 222565 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PCB Narration

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

Instrument: Au-ecd24 03/04/13-1 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 3/4/2013

QC (Site Specific)

---------- Sample No: BD41560, QA/QC Batch: 222468 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

SVOA Narration

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

Instrument: Chem06 03/03/13-2 (BD41560)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem06/SV_0227)
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Benzaldehyde, 2,4-dinitrophenol, Atrazine

The following compounds failed to meet the minimum required response factor: 2-nitrophenol, Hexachlorobenzene, % 2,4,6-tribromophenol

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: Benzaldehyde, Aniline, Hexachlorocyclopentadiene, Atrazine, 3,3'-dichlorobenzidine

Printed Name Damien Drobinski
Position: Chemist
Date: 3/3/2013

Instrument: Chem07 03/01/13-2 (BD41558, BD41559, BD41560, BD41561, BD41562, BD41563, BD41564, BD41565, BD41566, BD41567)

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem07/SV_0222):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Benzaldehyde, 2,4-dinitrophenol, Carbazole

The following compounds failed to meet the minimum required response factor: 2-nitrophenol, Hexachlorobenzene

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compunds had >20% difference from the initial calibration: Benzaldehyde, Hexachlorocyclopentadiene, 3-Nitroaniline, 2-Nitroaniline, Pentachlorophenol, Atrazine

Printed Name Damien Drobinski
Position: Chemist
Date: 3/1/2013

QC (Site Specific)

---------- Sample No: BD41560, QA/QC Batch: 222467 ----------

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.

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.

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

VOA Narration

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

QC Batch 222746 (Samples: BD41561, BD41562): -----

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

The QC recoveries for one or more analytes is below the lower range, but within the method criteria. A slight low bias is likely. (Methyl ethyl ketone)

QC Batch 222871 (Samples: BD41563, BD41564, BD41565, BD41566): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (1,1-Dichloroethene, 2-Hexanone, Bromomethane, Carbon Disulfide, Chloroethane, Trichlorofluoromethane, Trichlorotrifluoroethane)

The QC recoveries for one or more analytes is below the lower range, but within the method criteria. A slight low bias is likely. (Acetone, Methyl ethyl ketone)

QC Batch 222968 (Samples: BD41567): -----

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is likely. (2-Hexanone)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the lower range, therefore a slight low bias is possible. (Bromomethane, Carbon Disulfide, Chloroethane, Trichlorofluoromethane)

The QC recoveries for one or more analytes is below the lower range, but within the method criteria. A slight low bias is likely. (Acetone, Methyl ethyl ketone)

QC Batch 223554 (Samples: BD41560): -----

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

Instrument: Chem03 03/03/13-2 (BD41558, BD41559)

Initial Calibration Verification (RCPS_0227):
>90% of target compounds met method criteria.
The following compounds had %RSDs >20%: Acetone

Continuing Calibration Verification:
>80% of target compounds met method criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Acrolein, Tetrahydrofuran (THF), 2-Hexanone, 1,2,3-Trichloropropane

Printed Name Johanna Harrington
Position: Chemist
Date: 3/3/2013

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

Instrument: Chem15 03/06/13-1 (BD41563, BD41564, BD41565, BD41566, BD41567)

Initial Calibration Verification (CHEM15/RCPS_0306):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Chloroethane and Acetone

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Tetrahydrofuran (THF)

Printed Name Johanna Harrington
Position: Chemist
Date: 3/6/2013

Instrument: Chem15 03/07/13-2 (BD41567)

Initial Calibration Verification (CHEM15/RCPS_0306):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Chloroethane and Acetone

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Acetone, Methyl Ethyl Ketone, 2-Hexanone, n-Butylbenzene, 1,2,4-Trichlorobenzene

Printed Name Johanna Harrington
Position: Chemist
Date: 3/7/2013

Instrument: Chem18 03/05/13-1 (BD41561, BD41562)

Initial Calibration Verification (CHEM18/RCPS_0305#1):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone, Carbon Tetrachloride, Trans-1,4-dichloro-2-butene

Continuing Calibration Verification:
>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Dichlorodifluoromethane, Tetrahydrofuran (THF)

Printed Name Johanna Harrington
Position: Chemist
Date: 3/5/2013

Instrument: Chem18 03/14/13-1 (BD41560)

Initial Calibration Verification (CHEM18/RCPS_0311#1):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Methyl Ethyl Ketone, 2-hexanone

Continuing Calibration Verification:

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Tetrahydrofuran (THF)

Printed Name	Johanna Harrington
Position:	Chemist
Date:	3/14/2013

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

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

QC (Site Specific)

---------- Sample No: BD41563, QA/QC Batch: 222871 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(62%), Methyl ethyl ketone(67%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(50%), Methyl ethyl ketone(65%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(57%), 2-Hexanone(52%), Acetone(<40%), Bromomethane(46%), Carbon Disulfide(56%), Chloroethane(<40%), Methyl ethyl ketone(45%), Trichlorofluoromethane(<40%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(53%), 2-Hexanone(55%), Acetone(<40%), Bromomethane(46%), Carbon Disulfide(53%), Chloroethane(<40%), Methyl ethyl ketone(46%), Trichlorofluoromethane(<40%), Trichlorotrifluoroethane(69%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD41567, QA/QC Batch: 222968 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(69%), Acetone(47%), Methyl ethyl ketone(52%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(55%), Methyl ethyl ketone(59%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: cis-1,2-Dichloroethene(33.8%)

All MS recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(54%), Acetone(<40%), Bromomethane(53%), Carbon Disulfide(65%), Chloroethane(<40%), Methyl ethyl ketone(41%), Trichlorofluoromethane(<40%)

All MSD recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(51%), Acetone(<40%), Bromomethane(57%), Carbon Disulfide(65%), Chloroethane(<40%), Methyl ethyl ketone(<40%), Trichlorofluoromethane(<40%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

---------- Sample No: BD41889, QA/QC Batch: 223559 ----------

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.

---------- Sample No: BD42394, QA/QC Batch: 222746 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(143%), Methyl ethyl ketone(66%)

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

March 15, 2013

SDG I.D.: GBD41558

All LCSD recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(150%), Methyl ethyl ketone(67%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD45837, QA/QC Batch: 223554 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(>150%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(131%), Chloromethane(133%), Dichlorodifluoromethane(>150%), Trichlorofluoromethane(132%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 1C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ N ☐

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 1 °C Pg 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: jwitherell@CDRMaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Highway
Rocky Hill CT 06067

Project: Middletown Pump Station
Report to: Jane Witherell
Invoice to: CDR Maguire-Bid Prices

Project P.O: 147120 A300
Phone #: 860-563-3158
Fax #: 860-563-3188

Client Sample - Information - Identification

Sampler's Signature: Joseph Buehler
Date: 3/1/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC's	PAH's	ETPH	PCB's	Total RCRA Metals	SPLP Metals RCRA	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 [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
41558	PSGP-20	S	3/1/13	7:00	X	X	X	X	X	X	3	2								
41559	PSGP-21			7:06	X	X	X	X	X	X	3	2								
41560	PSGP-22			7:15	X	X	X	X	X	X	3	2								
41561	PSGP-23			7:40	X	X	X	X	X	X	3	2								
41562	PSGP-24			8:00	X	X	X	X	X	X	3	2								
41563	PSGP-29			8:40	X	X	X	X	X	X	3	2								
41564	PSGP-31			9:00	X	X	X	X	X	X	3	2								
41565	PSGP-30			9:15	X	X	X	X	X	X	3	2								
*41566	PSGP-32			9:50	X	X	X	X	X	X	3	2								
41567	PSGP-33			10:00	X	X	X	X	X	X	3	2								

Relinquished by:	Accepted by:	Date:	Time:
	Paradise	3/1/13	1200

Comments, Special Requirements or Regulations:

20 3-5
21 3-5
22 7-9
23 8-10
24 8-10
29 3-5
31 - 8-10
30 3-5
32 0-2
33 0-2

20&21 refusal @ 5'
29 refusal @ 5' limited Recovery

*High level voa labeled PSGP-26, date + time match

Turnaround:
☐ 1 Day*
☐ 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

PHOENIX
Environmental Laboratories, Inc.

Monday, March 18, 2013

Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Project ID: MIDDLETOWN PUMP STATION
Sample ID#s: BD42842 - BD42851

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.

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 #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/13	12:10
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42842

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-35

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 2.0	2.0	mg/Kg	03/06/13	EK	SW6010
Arsenic	1.4	0.9	mg/Kg	03/06/13	EK	SW6010
Barium	40.4	0.43	mg/Kg	03/06/13	EK	SW6010
Cadmium	< 0.43	0.43	mg/Kg	03/06/13	EK	SW6010
Chromium	9.70	0.43	mg/Kg	03/06/13	EK	SW6010
Mercury	< 0.09	0.09	mg/Kg	03/07/13	RS/LK	SW-7471
Lead	26.1	0.43	mg/Kg	03/06/13	EK	SW6010
Selenium	< 1.7	1.7	mg/Kg	03/06/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/06/13	EK	SW6010
SPLP Barium	0.069	0.010	mg/L	03/06/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/06/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/07/13	RS	1312/SW7470
SPLP Lead	0.015	0.010	mg/L	03/06/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/06/13	EK	SW6010
SPLP Metals Digestion	Completed			03/06/13	X/X	SW846-3005
Percent Solid	84		%	03/05/13	JL	E160.3
Soil Extraction for PCB	Completed			03/05/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			03/05/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/05/13	BS/V	3545
Mercury Digestion	Completed			03/07/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/07/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/05/13	X	EPA 1312
Total Metals Digest	Completed			03/05/13	AG	SW846 - 3050
Field Extraction	Completed			03/05/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	59	mg/Kg	03/06/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-35

Phoenix I.D.: BD42842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	ND		mg/Kg	03/06/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	87		%	03/06/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1221	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1232	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1242	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1248	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1254	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1260	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1262	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1268	ND	390	ug/Kg	03/06/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	98		%	03/06/13	AW	30 - 150 %
% TCMX	96		%	03/06/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	21	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	83	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-35

Phoenix I.D.: BD42842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	2.5	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	25	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	8.3	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	8.3	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	8.3	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	4.2	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	101		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	100		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	100		%	03/07/13	R/J	70 - 130 %
% Toluene-d8	100		%	03/07/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Acenaphthene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Acenaphthylene	ND	270	ug/Kg	03/06/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-35

Phoenix I.D.: BD42842

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Benz(a)anthracene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Benzo(a)pyrene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Benzo(b)fluoranthene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Benzo(ghi)perylene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Benzo(k)fluoranthene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Chrysene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Fluoranthene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Fluorene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Naphthalene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Phenanthrene	ND	270	ug/Kg	03/06/13	DD	SW 8270
Pyrene	ND	270	ug/Kg	03/06/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	89		%	03/06/13	DD	30 - 130 %
% Nitrobenzene-d5	88		%	03/06/13	DD	30 - 130 %
% Terphenyl-d14	97		%	03/06/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 18, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/13	12:20
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42843

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-34

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 2.0	2.0	mg/Kg	03/06/13	EK	SW6010
Arsenic	7.3	0.8	mg/Kg	03/06/13	EK	SW6010
Barium	238	0.41	mg/Kg	03/06/13	EK	SW6010
Cadmium	2.08	0.41	mg/Kg	03/06/13	EK	SW6010
Chromium	28.3	0.41	mg/Kg	03/06/13	EK	SW6010
Mercury	0.38	0.08	mg/Kg	03/11/13	RS	SW-7471
Lead	354	4.1	mg/Kg	03/07/13	EK	SW6010
Selenium	< 1.6	1.6	mg/Kg	03/06/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Arsenic	0.006	0.004	mg/L	03/07/13	EK	SW6010
SPLP Barium	0.174	0.010	mg/L	03/06/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/06/13	EK	SW6010
SPLP Chromium	0.013	0.010	mg/L	03/06/13	EK	SW6010
SPLP Mercury	0.0006	0.0004	mg/L	03/07/13	RS	1312/SW7470
SPLP Lead	0.272	0.010	mg/L	03/06/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/06/13	EK	SW6010
SPLP Metals Digestion	Completed			03/06/13	X/X	SW846-3005
Percent Solid	82		%	03/05/13	JL	E160.3
Soil Extraction for PCB	Completed			03/05/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			03/05/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/05/13	BS/V	3545
Mercury Digestion	Completed			03/11/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/07/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/05/13	X	EPA 1312
Total Metals Digest	Completed			03/05/13	AG	SW846 - 3050
Field Extraction	Completed			03/05/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	100	60	mg/Kg	03/06/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-34

Phoenix I.D.: BD42843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/06/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	89		%	03/06/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1221	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1232	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1242	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1248	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1254	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1260	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1262	ND	390	ug/Kg	03/06/13	AW	SW 8082
PCB-1268	ND	390	ug/Kg	03/06/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	94		%	03/06/13	AW	30 - 150 %
% TCMX	94		%	03/06/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	26	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	100	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-34

Phoenix I.D.: BD42843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	103		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	82		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	105		%	03/07/13	R/J	70 - 130 %
% Toluene-d8	96		%	03/07/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	03/06/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-34

Phoenix I.D.: BD42843

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference	
Anthracene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Benz(a)anthracene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Benzo(a)pyrene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Benzo(b)fluoranthene	290	280	ug/Kg	03/06/13	DD	SW 8270	
Benzo(ghi)perylene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Benzo(k)fluoranthene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Chrysene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Dibenz(a,h)anthracene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Fluoranthene	450	280	ug/Kg	03/06/13	DD	SW 8270	
Fluorene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Naphthalene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Phenanthrene	ND	280	ug/Kg	03/06/13	DD	SW 8270	
Pyrene	460	280	ug/Kg	03/06/13	DD	SW 8270	
QA/QC Surrogates							
% 2-Fluorobiphenyl	104		%	03/06/13	DD	30 - 130 %	
% Nitrobenzene-d5	87		%	03/06/13	DD	30 - 130 %	
% Terphenyl-d14	138		%	03/06/13	DD	30 - 130 %	3

3 = This parameter exceeds laboratory specified limits.

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

Comments:

* The surrogate failed method criteria due to sample matrix interference for the semivolatile analysis. The other surrogates associated with this sample were within QA/QC criteria.

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 18, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/13	12:50
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42844

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-25

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 2.0	2.0	mg/Kg	03/06/13	EK	SW6010
Arsenic	2.3	0.8	mg/Kg	03/06/13	EK	SW6010
Barium	117	0.42	mg/Kg	03/06/13	EK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	03/06/13	EK	SW6010
Chromium	34.5	0.42	mg/Kg	03/06/13	EK	SW6010
Mercury	< 0.10	0.10	mg/Kg	03/11/13	RS	SW-7471
Lead	14.2	0.42	mg/Kg	03/06/13	EK	SW6010
Selenium	< 1.7	1.7	mg/Kg	03/06/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Arsenic	0.007	0.004	mg/L	03/07/13	EK	SW6010
SPLP Barium	0.091	0.010	mg/L	03/06/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/06/13	EK	SW6010
SPLP Chromium	0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/07/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/06/13	EK	SW6010
SPLP Metals Digestion	Completed			03/06/13	X/X	SW846-3005
Percent Solid	75		%	03/05/13	JL	E160.3
Soil Extraction for PCB	Completed			03/05/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			03/05/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/05/13	BS/V	3545
Mercury Digestion	Completed			03/11/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/07/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/05/13	X	EPA 1312
Total Metals Digest	Completed			03/05/13	AG	SW846 - 3050
Field Extraction	Completed			03/05/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	100	65	mg/Kg	03/06/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-25

Phoenix I.D.: BD42844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/06/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	87		%	03/06/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	430	ug/Kg	03/06/13	AW	SW 8082
PCB-1221	ND	430	ug/Kg	03/06/13	AW	SW 8082
PCB-1232	ND	430	ug/Kg	03/06/13	AW	SW 8082
PCB-1242	ND	430	ug/Kg	03/06/13	AW	SW 8082
PCB-1248	ND	430	ug/Kg	03/06/13	AW	SW 8082
PCB-1254	ND	430	ug/Kg	03/06/13	AW	SW 8082
PCB-1260	ND	430	ug/Kg	03/06/13	AW	SW 8082
PCB-1262	ND	430	ug/Kg	03/06/13	AW	SW 8082
PCB-1268	ND	430	ug/Kg	03/06/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	97		%	03/06/13	AW	30 - 150 %
% TCMX	78		%	03/06/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.6	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	30	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
4-Methyl-2-pentanone	ND	30	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	120	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-25

Phoenix I.D.: BD42844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	3.6	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	36	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	6.0	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	100		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	102		%	03/07/13	R/J	70 - 130 %
% Toluene-d8	100		%	03/07/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Acenaphthene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Acenaphthylene	ND	300	ug/Kg	03/06/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-25

Phoenix I.D.: BD42844

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Benz(a)anthracene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Benzo(a)pyrene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Benzo(b)fluoranthene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Benzo(ghi)perylene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Benzo(k)fluoranthene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Chrysene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Fluoranthene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Fluorene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Naphthalene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Phenanthrene	ND	300	ug/Kg	03/06/13	DD	SW 8270
Pyrene	ND	300	ug/Kg	03/06/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	81		%	03/06/13	DD	30 - 130 %
% Nitrobenzene-d5	82		%	03/06/13	DD	30 - 130 %
% Terphenyl-d14	104		%	03/06/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 18, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/13	13:05
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42845

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-26

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 2.0	2.0	mg/Kg	03/06/13	EK	SW6010
Arsenic	2.8	0.8	mg/Kg	03/06/13	EK	SW6010
Barium	27.8	0.42	mg/Kg	03/06/13	EK	SW6010
Cadmium	< 0.42	0.42	mg/Kg	03/06/13	EK	SW6010
Chromium	15.4	0.42	mg/Kg	03/06/13	EK	SW6010
Mercury	< 0.10	0.10	mg/Kg	03/11/13	RS	SW-7471
Lead	7.86	0.42	mg/Kg	03/06/13	EK	SW6010
Selenium	< 1.7	1.7	mg/Kg	03/06/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/06/13	EK	SW6010
SPLP Barium	0.089	0.010	mg/L	03/06/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/06/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/07/13	RS	1312/SW7470
SPLP Lead	0.014	0.010	mg/L	03/06/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/06/13	EK	SW6010
SPLP Metals Digestion	Completed			03/06/13	X/X	SW846-3005
Percent Solid	81		%	03/05/13	JL	E160.3
Soil Extraction for PCB	Completed			03/05/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			03/05/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/05/13	BS/V	3545
Mercury Digestion	Completed			03/11/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/07/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/05/13	X	EPA 1312
Total Metals Digest	Completed			03/05/13	AG	SW846 - 3050
Field Extraction	Completed			03/05/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	100	62	mg/Kg	03/06/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-26

Phoenix I.D.: BD42845

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/06/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	85		%	03/06/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	410	ug/Kg	03/06/13	AW	SW 8082
PCB-1221	ND	410	ug/Kg	03/06/13	AW	SW 8082
PCB-1232	ND	410	ug/Kg	03/06/13	AW	SW 8082
PCB-1242	ND	410	ug/Kg	03/06/13	AW	SW 8082
PCB-1248	ND	410	ug/Kg	03/06/13	AW	SW 8082
PCB-1254	ND	410	ug/Kg	03/06/13	AW	SW 8082
PCB-1260	ND	410	ug/Kg	03/06/13	AW	SW 8082
PCB-1262	ND	410	ug/Kg	03/06/13	AW	SW 8082
PCB-1268	ND	410	ug/Kg	03/06/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	109		%	03/06/13	AW	30 - 150 %
% TCMX	74		%	03/06/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	26	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	100	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-26

Phoenix I.D.: BD42845

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	5.2	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	99		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	99		%	03/07/13	R/J	70 - 130 %
% Toluene-d8	99		%	03/07/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Acenaphthene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Acenaphthylene	ND	290	ug/Kg	03/06/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-26

Phoenix I.D.: BD42845

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Benz(a)anthracene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Benzo(a)pyrene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Benzo(b)fluoranthene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Benzo(ghi)perylene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Benzo(k)fluoranthene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Chrysene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Fluoranthene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Fluorene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Naphthalene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Phenanthrene	ND	290	ug/Kg	03/06/13	DD	SW 8270
Pyrene	ND	290	ug/Kg	03/06/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	81		%	03/06/13	DD	30 - 130 %
% Nitrobenzene-d5	93		%	03/06/13	DD	30 - 130 %
% Terphenyl-d14	92		%	03/06/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 18, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/13	13:30
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42846

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-27

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 2.0	2.0	mg/Kg	03/06/13	EK	SW6010
Arsenic	1.9	0.8	mg/Kg	03/06/13	EK	SW6010
Barium	17.0	0.38	mg/Kg	03/06/13	EK	SW6010
Cadmium	< 0.38	0.38	mg/Kg	03/06/13	EK	SW6010
Chromium	10.1	0.38	mg/Kg	03/06/13	EK	SW6010
Mercury	< 0.10	0.10	mg/Kg	03/11/13	RS	SW-7471
Lead	4.99	0.38	mg/Kg	03/06/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	03/06/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/06/13	EK	SW6010
SPLP Barium	0.067	0.010	mg/L	03/06/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/06/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/07/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/06/13	EK	SW6010
SPLP Metals Digestion	Completed			03/06/13	X/X	SW846-3005
Percent Solid	83		%	03/05/13	JL	E160.3
Soil Extraction for PCB	Completed			03/05/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			03/05/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/05/13	BS/V	3545
Mercury Digestion	Completed			03/11/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/07/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/05/13	X	EPA 1312
Total Metals Digest	Completed			03/05/13	AG	SW846 - 3050
Field Extraction	Completed			03/05/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	94	59	mg/Kg	03/06/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-27

Phoenix I.D.: BD42846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/06/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	81		%	03/06/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	400	ug/Kg	03/06/13	AW	SW 8082
PCB-1221	ND	400	ug/Kg	03/06/13	AW	SW 8082
PCB-1232	ND	400	ug/Kg	03/06/13	AW	SW 8082
PCB-1242	ND	400	ug/Kg	03/06/13	AW	SW 8082
PCB-1248	ND	400	ug/Kg	03/06/13	AW	SW 8082
PCB-1254	ND	400	ug/Kg	03/06/13	AW	SW 8082
PCB-1260	ND	400	ug/Kg	03/06/13	AW	SW 8082
PCB-1262	ND	400	ug/Kg	03/06/13	AW	SW 8082
PCB-1268	ND	400	ug/Kg	03/06/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	101		%	03/06/13	AW	30 - 150 %
% TCMX	46		%	03/06/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	24	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	98	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-27

Phoenix I.D.: BD42846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.8	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	9.8	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.8	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	4.9	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	101		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	103		%	03/07/13	R/J	70 - 130 %
% Toluene-d8	100		%	03/07/13	R/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Acenaphthene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Acenaphthylene	ND	280	ug/Kg	03/06/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-27

Phoenix I.D.: BD42846

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Benz(a)anthracene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Benzo(a)pyrene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Benzo(b)fluoranthene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Benzo(ghi)perylene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Benzo(k)fluoranthene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Chrysene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Fluoranthene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Fluorene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Naphthalene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Phenanthrene	ND	280	ug/Kg	03/06/13	DD	SW 8270
Pyrene	ND	280	ug/Kg	03/06/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	94		%	03/06/13	DD	30 - 130 %
% Nitrobenzene-d5	81		%	03/06/13	DD	30 - 130 %
% Terphenyl-d14	124		%	03/06/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 18, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/13	13:45
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42847

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-28

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 2.0	2.0	mg/Kg	03/06/13	EK	SW6010
Arsenic	2.2	0.7	mg/Kg	03/06/13	EK	SW6010
Barium	33.9	0.37	mg/Kg	03/06/13	EK	SW6010
Cadmium	< 0.37	0.37	mg/Kg	03/06/13	EK	SW6010
Chromium	7.80	0.37	mg/Kg	03/06/13	EK	SW6010
Mercury	< 0.07	0.07	mg/Kg	03/11/13	RS	SW-7471
Lead	44.8	0.37	mg/Kg	03/06/13	EK	SW6010
Selenium	< 1.5	1.5	mg/Kg	03/07/13	EK	SW6010
SPLP Silver	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Arsenic	< 0.004	0.004	mg/L	03/06/13	EK	SW6010
SPLP Barium	0.059	0.010	mg/L	03/06/13	EK	SW6010
SPLP Cadmium	< 0.005	0.005	mg/L	03/06/13	EK	SW6010
SPLP Chromium	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Mercury	< 0.0004	0.0004	mg/L	03/07/13	RS	1312/SW7470
SPLP Lead	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
SPLP Selenium	< 0.020	0.020	mg/L	03/06/13	EK	SW6010
SPLP Metals Digestion	Completed			03/06/13	X/X	SW846-3005
Percent Solid	92		%	03/05/13	JL	E160.3
Soil Extraction for PCB	Completed			03/05/13	BB/V	SW3545
Soil Extraction SVOA BN	Completed			03/05/13	BJ/V	SW3545
Extraction of CT ETPH	Completed			03/05/13	BS/V	3545
Mercury Digestion	Completed			03/11/13	X/X	SW7471
SPLP Digestion Mercury	Completed			03/07/13	X/X	E1312/SW7470
SPLP Extraction for Metals	Completed			03/05/13	X	EPA 1312
Total Metals Digest	Completed			03/05/13	AG	SW846 - 3050
Field Extraction	Completed			03/05/13		SW5035

TPH by GC (Extractable Products)

Ext. Petroleum HC	68	54	mg/Kg	03/06/13	JRB	CT ETPH/8015

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-28

Phoenix I.D.: BD42847

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Identification	**		mg/Kg	03/06/13	JRB	CT ETPH/8015
QA/QC Surrogates						
% n-Pentacosane	84		%	03/06/13	JRB	50 - 150 %
Polychlorinated Biphenyls						
PCB-1016	ND	360	ug/Kg	03/06/13	AW	SW 8082
PCB-1221	ND	360	ug/Kg	03/06/13	AW	SW 8082
PCB-1232	ND	360	ug/Kg	03/06/13	AW	SW 8082
PCB-1242	ND	360	ug/Kg	03/06/13	AW	SW 8082
PCB-1248	ND	360	ug/Kg	03/06/13	AW	SW 8082
PCB-1254	ND	360	ug/Kg	03/06/13	AW	SW 8082
PCB-1260	ND	360	ug/Kg	03/06/13	AW	SW 8082
PCB-1262	ND	360	ug/Kg	03/06/13	AW	SW 8082
PCB-1268	ND	360	ug/Kg	03/06/13	AW	SW 8082
QA/QC Surrogates						
% DCBP	98		%	03/06/13	AW	30 - 150 %
% TCMX	40		%	03/06/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,1,1-Trichloroethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	03/12/13	K/J	SW8260
1,1,2-Trichloroethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,1-Dichloroethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,1-Dichloroethene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,1-Dichloropropene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2,3-Trichlorobenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2,3-Trichloropropane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2,4-Trichlorobenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2,4-Trimethylbenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2-Dibromo-3-chloropropane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2-Dibromoethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2-Dichlorobenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2-Dichloroethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,2-Dichloropropane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,3,5-Trimethylbenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,3-Dichlorobenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,3-Dichloropropane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
1,4-Dichlorobenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
2,2-Dichloropropane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
2-Chlorotoluene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
2-Hexanone	ND	23	ug/Kg	03/12/13	K/J	SW8260
2-Isopropyltoluene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
4-Chlorotoluene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	03/12/13	K/J	SW8260
Acetone	ND	90	ug/Kg	03/12/13	K/J	SW8260
Acrylonitrile	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Benzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Bromobenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Bromochloromethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-28

Phoenix I.D.: BD42847

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Bromodichloromethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Bromoform	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Bromomethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Carbon Disulfide	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Carbon tetrachloride	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Chlorobenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Chloroethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Chloroform	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Chloromethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
cis-1,2-Dichloroethene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
cis-1,3-Dichloropropene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	03/12/13	K/J	SW8260
Dibromomethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Dichlorodifluoromethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Ethylbenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Hexachlorobutadiene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Isopropylbenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
m&p-Xylene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	03/12/13	K/J	SW8260
Methyl t-butyl ether (MTBE)	ND	9.0	ug/Kg	03/12/13	K/J	SW8260
Methylene chloride	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Naphthalene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
n-Butylbenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
n-Propylbenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
o-Xylene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
p-Isopropyltoluene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
sec-Butylbenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Styrene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
tert-Butylbenzene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Tetrachloroethene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Tetrahydrofuran (THF)	ND	9.0	ug/Kg	03/12/13	K/J	SW8260
Toluene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Total Xylenes	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
trans-1,2-Dichloroethene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
trans-1,3-Dichloropropene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
trans-1,4-dichloro-2-butene	ND	9.0	ug/Kg	03/12/13	K/J	SW8260
Trichloroethene	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Trichlorofluoromethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Trichlorotrifluoroethane	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
Vinyl chloride	ND	4.5	ug/Kg	03/12/13	K/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	98		%	03/12/13	K/J	70 - 130 %
% Bromofluorobenzene	94		%	03/12/13	K/J	70 - 130 %
% Dibromofluoromethane	100		%	03/12/13	K/J	70 - 130 %
% Toluene-d8	97		%	03/12/13	K/J	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	03/06/13	DD	SW 8270

Project ID: MIDDLETOWN PUMP STATION
Client ID: PSGP-28

Phoenix I.D.: BD42847

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Chrysene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Fluorene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Naphthalene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	03/06/13	DD	SW 8270
Pyrene	ND	250	ug/Kg	03/06/13	DD	SW 8270
QA/QC Surrogates						
% 2-Fluorobiphenyl	70		%	03/06/13	DD	30 - 130 %
% Nitrobenzene-d5	83		%	03/06/13	DD	30 - 130 %
% Terphenyl-d14	97		%	03/06/13	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 18, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		03/05/13	0:00
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42848

Project ID: MIDDLETOWN PUMP STATION
Client ID: FB-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	03/06/13	EK	SW6010
Arsenic	< 0.004	0.004	mg/L	03/06/13	EK	SW6010
Barium	< 0.002	0.002	mg/L	03/06/13	EK	SW6010
Cadmium	< 0.001	0.001	mg/L	03/06/13	EK	SW6010
Chromium	< 0.001	0.001	mg/L	03/06/13	EK	SW6010
Silver (Dissolved)	< 0.001	0.001	mg/L	03/06/13	EK	SW6010
Arsenic (Dissolved)	< 0.004	0.004	mg/L	03/06/13	EK	SW6010
Barium (Dissolved)	< 0.002	0.002	mg/L	03/06/13	EK	SW6010
Cadmium (Dissolved)	< 0.001	0.001	mg/L	03/06/13	EK	SW6010
Chromium (Dissolved)	< 0.001	0.001	mg/L	03/06/13	EK	SW6010
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	03/07/13	RS	SW7470
Lead (Dissolved)	< 0.002	0.002	mg/L	03/06/13	EK	SW6010
Selenium (Dissolved)	< 0.011	0.011	mg/L	03/06/13	EK	SW6010
Mercury	< 0.0002	0.0002	mg/L	03/07/13	RS	SW7470
Lead	< 0.002	0.002	mg/L	03/06/13	EK	SW6010
Selenium	< 0.010	0.010	mg/L	03/06/13	EK	SW6010
Extraction of CT ETPH	Completed			03/05/13	I/K/D	3510/3520
Dissolved Mercury Digestion	Completed			03/07/13	X/X	SW7470
Mercury Digestion	Completed			03/07/13	X/X	SW7470
PCB Extraction	Completed			03/05/13	L/T	SW3510C
Semi-Volatile Extraction	Completed			03/05/13	I/D	SW3520
Dissolved Metals Preparation	Completed			03/05/13	AG	SW846-3005
Total Metals Digestion	Completed			03/05/13	AG	
TPH by GC (Extractable Products)						
Ext. Petroleum HC	0.13	0.070	mg/L	03/06/13	JRB	CTETPH/8015D
Identification	**		mg/L	03/06/13	JRB	CTETPH/8015D
QA/QC Surrogates						
% n-Pentacosane	93		%	03/06/13	JRB	50 - 150 %

Project ID: MIDDLETOWN PUMP STATION
Client ID: FB-1

Phoenix I.D.: BD42848

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Polychlorinated Biphenyls						
PCB-1016	ND	0.50	ug/L	03/06/13	AW	8082
PCB-1221	ND	0.50	ug/L	03/06/13	AW	8082
PCB-1232	ND	0.50	ug/L	03/06/13	AW	8082
PCB-1242	ND	0.50	ug/L	03/06/13	AW	8082
PCB-1248	ND	0.50	ug/L	03/06/13	AW	8082
PCB-1254	ND	0.50	ug/L	03/06/13	AW	8082
PCB-1260	ND	0.50	ug/L	03/06/13	AW	8082
PCB-1262	ND	0.50	ug/L	03/06/13	AW	8082
PCB-1268	ND	0.50	ug/L	03/06/13	AW	8082
QA/QC Surrogates						
% DCBP	86		%	03/06/13	AW	30 - 150 %
% TCMX	90		%	03/06/13	AW	30 - 150 %
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	03/08/13	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	03/08/13	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	03/08/13	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	03/08/13	H/T	SW8260
Acetone	ND	25	ug/L	03/08/13	H/T	SW8260
Acrylonitrile	ND	5.0	ug/L	03/08/13	H/T	SW8260
Benzene	ND	0.70	ug/L	03/08/13	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	03/08/13	H/T	SW8260
Bromoform	ND	1.0	ug/L	03/08/13	H/T	SW8260
Bromomethane	ND	1.0	ug/L	03/08/13	H/T	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: FB-1

Phoenix I.D.: BD42848

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Carbon Disulfide	ND	5.0	ug/L	03/08/13	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	03/08/13	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Chloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Chloroform	ND	1.0	ug/L	03/08/13	H/T	SW8260
Chloromethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	03/08/13	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	03/08/13	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	03/08/13	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	03/08/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	03/08/13	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	03/08/13	H/T	SW8260
Naphthalene	ND	1.0	ug/L	03/08/13	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
o-Xylene	ND	1.0	ug/L	03/08/13	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Styrene	ND	1.0	ug/L	03/08/13	H/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	03/08/13	H/T	SW8260
Toluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	03/08/13	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	03/08/13	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	03/08/13	H/T	SW8260
Trichloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	03/08/13	H/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	100		%	03/08/13	H/T	70 - 130 %
% Bromofluorobenzene	88		%	03/08/13	H/T	70 - 130 %
% Dibromofluoromethane	104		%	03/08/13	H/T	70 - 130 %
% Toluene-d8	100		%	03/08/13	H/T	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
Acenaphthene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
Acenaphthylene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
Anthracene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
Benz(a)anthracene	ND	0.020	ug/L	03/06/13	DD	8270(SIM)
Benzo(a)pyrene	ND	0.020	ug/L	03/06/13	DD	8270(SIM)

Project ID: MIDDLETOWN PUMP STATION

Client ID: FB-1

Phoenix I.D.: BD42848

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Benzo(b)fluoranthene	ND	0.020	ug/L	03/06/13	DD	8270(SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
Benzo(k)fluoranthene	ND	0.020	ug/L	03/06/13	DD	8270(SIM)
Chrysene	ND	0.020	ug/L	03/06/13	DD	8270(SIM)
Dibenz(a,h)anthracene	ND	0.010	ug/L	03/06/13	DD	8270(SIM)
Fluoranthene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
Fluorene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
Indeno(1,2,3-cd)pyrene	ND	0.020	ug/L	03/06/13	DD	8270(SIM)
Naphthalene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
Phenanthrene	ND	0.070	ug/L	03/06/13	DD	8270(SIM)
Pyrene	ND	0.10	ug/L	03/06/13	DD	8270(SIM)
QA/QC Surrogates						
% 2-Fluorobiphenyl	79		%	03/06/13	DD	30 - 130 %
% Nitrobenzene-d5	97		%	03/06/13	DD	30 - 130 %
% Terphenyl-d14	98		%	03/06/13	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 18, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		03/05/13	0:00
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42849

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Volatiles						
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	03/08/13	H/T	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	03/08/13	H/T	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	03/08/13	H/T	SW8260
2-Chlorotoluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
2-Hexanone	ND	5.0	ug/L	03/08/13	H/T	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
4-Chlorotoluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	03/08/13	H/T	SW8260
Acetone	ND	25	ug/L	03/08/13	H/T	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK

Phoenix I.D.: BD42849

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Acrylonitrile	ND	5.0	ug/L	03/08/13	H/T	SW8260
Benzene	ND	0.70	ug/L	03/08/13	H/T	SW8260
Bromobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Bromochloromethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Bromodichloromethane	ND	0.50	ug/L	03/08/13	H/T	SW8260
Bromoform	ND	1.0	ug/L	03/08/13	H/T	SW8260
Bromomethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Carbon Disulfide	ND	5.0	ug/L	03/08/13	H/T	SW8260
Carbon tetrachloride	ND	1.0	ug/L	03/08/13	H/T	SW8260
Chlorobenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Chloroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Chloroform	ND	1.0	ug/L	03/08/13	H/T	SW8260
Chloromethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	03/08/13	H/T	SW8260
Dibromochloromethane	ND	0.50	ug/L	03/08/13	H/T	SW8260
Dibromomethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Ethylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	03/08/13	H/T	SW8260
Isopropylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
m&p-Xylene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	03/08/13	H/T	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	03/08/13	H/T	SW8260
Methylene chloride	ND	1.0	ug/L	03/08/13	H/T	SW8260
Naphthalene	ND	1.0	ug/L	03/08/13	H/T	SW8260
n-Butylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
n-Propylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
o-Xylene	ND	1.0	ug/L	03/08/13	H/T	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
sec-Butylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Styrene	ND	1.0	ug/L	03/08/13	H/T	SW8260
tert-Butylbenzene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Tetrachloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	03/08/13	H/T	SW8260
Toluene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Total Xylenes	ND	1.0	ug/L	03/08/13	H/T	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	03/08/13	H/T	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	03/08/13	H/T	SW8260
Trichloroethene	ND	1.0	ug/L	03/08/13	H/T	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	03/08/13	H/T	SW8260
Vinyl chloride	ND	1.0	ug/L	03/08/13	H/T	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	102		%	03/08/13	H/T	70 - 130 %
% Bromofluorobenzene	91		%	03/08/13	H/T	70 - 130 %
% Dibromofluoromethane	101		%	03/08/13	H/T	70 - 130 %
% Toluene-d8	99		%	03/08/13	H/T	70 - 130 %

Project ID: MIDDLETOWN PUMP STATION

Phoenix I.D.: BD42849

Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference

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

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

March 18, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/13	0:00
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42850

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%			E160.3
Field Extraction	Completed			03/05/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	25	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK

Phoenix I.D.: BD42850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	100	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	5.0	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	101		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	99		%	03/07/13	R/J	70 - 130 %

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK

Phoenix I.D.: BD42850

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	100		%	03/07/13	R/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 18, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

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

Analysis Report

March 18, 2013

FOR: Attn: Ms Jane Witherell
CDR Maguire Group
2080 Silas Deane Highway
Rocky Hill. CT 06067

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		03/05/13	0:00
Location Code:	MAGUIRE	Received by:	SW	03/05/13	15:07
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	14712.02 A300				

Laboratory Data

SDG ID: GBD42842
Phoenix ID: BD42851

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%			E160.3
Field Extraction	Completed			03/05/13		SW5035
Volatiles						
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	03/07/13	R/J	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	03/07/13	R/J	SW8260
2-Chlorotoluene	ND	250	ug/Kg	03/07/13	R/J	SW8260
2-Hexanone	ND	1300	ug/Kg	03/07/13	R/J	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	03/07/13	R/J	SW8260
4-Chlorotoluene	ND	250	ug/Kg	03/07/13	R/J	SW8260

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK

Phoenix I.D.: BD42851

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	03/07/13	R/J	SW8260
Acetone	ND	5000	ug/Kg	03/07/13	R/J	SW8260
Acrylonitrile	ND	250	ug/Kg	03/07/13	R/J	SW8260
Benzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Bromobenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Bromochloromethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Bromodichloromethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Bromoform	ND	250	ug/Kg	03/07/13	R/J	SW8260
Bromomethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Carbon Disulfide	ND	250	ug/Kg	03/07/13	R/J	SW8260
Carbon tetrachloride	ND	250	ug/Kg	03/07/13	R/J	SW8260
Chlorobenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Chloroethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Chloroform	ND	250	ug/Kg	03/07/13	R/J	SW8260
Chloromethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	03/07/13	R/J	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Dibromochloromethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Dibromomethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Ethylbenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Isopropylbenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
m&p-Xylene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	03/07/13	R/J	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	03/07/13	R/J	SW8260
Methylene chloride	ND	500	ug/Kg	03/07/13	R/J	SW8260
Naphthalene	ND	250	ug/Kg	03/07/13	R/J	SW8260
n-Butylbenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
n-Propylbenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
o-Xylene	ND	250	ug/Kg	03/07/13	R/J	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	03/07/13	R/J	SW8260
sec-Butylbenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Styrene	ND	250	ug/Kg	03/07/13	R/J	SW8260
tert-Butylbenzene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Tetrachloroethene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	03/07/13	R/J	SW8260
Toluene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Total Xylenes	ND	250	ug/Kg	03/07/13	R/J	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	03/07/13	R/J	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	03/07/13	R/J	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	03/07/13	R/J	SW8260
Trichloroethene	ND	250	ug/Kg	03/07/13	R/J	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	03/07/13	R/J	SW8260
Vinyl chloride	ND	250	ug/Kg	03/07/13	R/J	SW8260
QA/QC Surrogates						
% 1,2-dichlorobenzene-d4	99		%	03/07/13	R/J	70 - 130 %
% Bromofluorobenzene	101		%	03/07/13	R/J	70 - 130 %
% Dibromofluoromethane	96		%	03/07/13	R/J	70 - 130 %

Project ID: MIDDLETOWN PUMP STATION
Client ID: TRIP BLANK

Phoenix I.D.: BD42851

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	100		%	03/07/13	R/J	70 - 130 %

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

Comments:

TRIP BLANK INCLUDED. %SOLIDS ASSUMED 100%

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 at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 18, 2013
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

QA/QC Report

March 18, 2013

QA/QC Data

SDG I.D.: GBD42842

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 222612, QC Sample No: BD41880 (BD42848)													
ICP Metals - Aqueous													
Arsenic	BRL	<0.004	<0.004	NC	94.1	95.9	1.9	98.5	99.0	0.5	75 - 125	20	
Barium	BRL	0.021	0.020	4.90	102	105	2.9	104	105	1.0	75 - 125	20	
Cadmium	BRL	<0.001	<0.001	NC	95.8	98.3	2.6	97.2	98.1	0.9	75 - 125	20	
Chromium	BRL	<0.001	0.001	NC	95.0	98.1	3.2	97.7	98.6	0.9	75 - 125	20	
Lead	BRL	0.004	0.004	NC	94.7	98.0	3.4	97.1	97.8	0.7	75 - 125	20	
Selenium	BRL	<0.010	<0.010	NC	88.3	90.9	2.9	92.5	92.8	0.3	75 - 125	20	
Silver	BRL	0.003	0.003	NC	92.1	95.2	3.3	96.1	96.1	0.0	75 - 125	20	
QA/QC Batch 222565, QC Sample No: BD41971 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)													
ICP Metals - SPLP Extraction													
Arsenic	BRL	0.004	<0.004	NC	97.5	97.6	0.1	98.0	97.7	0.3	75 - 125	20	
Barium	BRL	0.052	0.049	NC	97.2	96.1	1.1	97.0	94.7	2.4	75 - 125	20	
Cadmium	BRL	<0.005	<0.005	NC	104	105	1.0	104	104	0.0	75 - 125	20	
Chromium	BRL	<0.010	<0.010	NC	98.9	99.1	0.2	99.8	98.5	1.3	75 - 125	20	
Lead	BRL	<0.010	<0.010	NC	99.9	101	1.1	101	100	1.0	75 - 125	20	
Selenium	BRL	<0.020	<0.020	NC	96.8	96.8	0.0	96.0	95.7	0.3	75 - 125	20	
Silver	BRL	<0.010	<0.010	NC	94.9	94.1	0.8	95.5	93.6	2.0	75 - 125	20	
QA/QC Batch 222827, QC Sample No: BD42027 (BD42842)													
Mercury - Soil	BRL	<0.07	<0.07	NC	107	114	6.3	111	114	2.7	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 222676, QC Sample No: BD42842 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)													
ICP Metals - Soil													
Arsenic	BRL	1.4	1.90	NC	90.9	89.2	1.9	85.6	87.3	2.0	75 - 125	30	
Barium	BRL	40.4	42.4	4.80	96.5	91.9	4.9	85.1	73.9	14.1	75 - 125	30	m
Cadmium	BRL	<0.43	<0.41	NC	96.0	95.0	1.0	87.6	88.7	1.2	75 - 125	30	
Chromium	BRL	9.70	9.92	2.20	96.5	95.2	1.4	93.4	92.5	1.0	75 - 125	30	
Lead	BRL	26.1	24.0	8.40	92.2	91.2	1.1	94.9	90.5	4.7	75 - 125	30	
Selenium	BRL	<1.7	<1.6	NC	99.6	98.2	1.4	75.6	75.8	0.3	75 - 125	30	
Silver	BRL	<0.43	<0.41	NC	87.2	86.3	1.0	88.4	89.9	1.7	75 - 125	30	
QA/QC Batch 223069, QC Sample No: BD42843 (BD42843, BD42844, BD42845, BD42846)													
Mercury - Soil	BRL	0.38	0.42	NC	102	107	4.8	78.3	>125	NC	70 - 130	30	m
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 222953, QC Sample No: BD42847 (BD42847)													
Mercury - Soil	BRL	<0.07	<0.07	NC	106	101	4.8	111	106	4.6	70 - 130	30	
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													

QA/QC Data

SDG I.D.: GBD42842

Parameter	Blank	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 222698, QC Sample No: BD42848 (BD42848)												
ICP Metals - Dissolved												
Arsenic	BRL	<0.004	<0.004	NC	96.4	92.4	4.2	92.9	95.7	3.0	75 - 125	20
Barium	BRL	<0.002	<0.002	NC	99.7	97.0	2.7	96.5	99.4	3.0	75 - 125	20
Cadmium	BRL	<0.001	<0.001	NC	104	99.4	4.5	99.4	102	2.6	75 - 125	20
Chromium	BRL	<0.001	<0.001	NC	98.3	94.1	4.4	94.2	97.4	3.3	75 - 125	20
Lead	BRL	<0.002	<0.002	NC	101	97.2	3.8	97.2	100	2.8	75 - 125	20
Selenium	BRL	<0.011	<0.011	NC	93.4	90.8	2.8	90.1	93.3	3.5	75 - 125	20
Silver	BRL	<0.001	<0.001	NC	92.8	89.4	3.7	88.4	91.5	3.4	75 - 125	20
QA/QC Batch 222830, QC Sample No: BD42848 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847, BD42848)												
Mercury - Water	BRL	<0.0002	<0.0002	NC	117	112	4.4	114	109	4.5	70 - 130	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

m = This parameter is outside laboratory ms/msd 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

March 18, 2013

QA/QC Data

SDG I.D.: GBD42842

QA/QC Batch 222885, QC Sample No: BD41974 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42850, BD42851 (50X))

Volatiles - Soil

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	107	98	8.8	94	90	4.3	70 - 130	30	
1,1,1-Trichloroethane	ND	104	97	7.0	96	94	2.1	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	100	93	7.3	94	96	2.1	70 - 130	30	
1,1,2-Trichloroethane	ND	111	98	12.4	91	96	5.3	70 - 130	30	
1,1-Dichloroethane	ND	102	97	5.0	98	90	8.5	70 - 130	30	
1,1-Dichloroethene	ND	100	94	6.2	92	90	2.2	70 - 130	30	
1,1-Dichloropropene	ND	100	95	5.1	95	93	2.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	108	86	22.7	76	93	20.1	70 - 130	30	
1,2,3-Trichloropropane	ND	94	103	9.1	103	96	7.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	96	80	18.2	74	86	15.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	101	95	6.1	96	94	2.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	117	105	10.8	96	100	4.1	70 - 130	30	
1,2-Dibromoethane	ND	111	96	14.5	92	98	6.3	70 - 130	30	
1,2-Dichlorobenzene	ND	100	91	9.4	89	90	1.1	70 - 130	30	
1,2-Dichloroethane	ND	104	93	11.2	92	96	4.3	70 - 130	30	
1,2-Dichloropropane	ND	105	95	10.0	97	97	0.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	99	94	5.2	95	92	3.2	70 - 130	30	
1,3-Dichlorobenzene	ND	97	90	7.5	87	89	2.3	70 - 130	30	
1,3-Dichloropropane	ND	107	96	10.8	95	96	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	96	88	8.7	85	88	3.5	70 - 130	30	
2,2-Dichloropropane	ND	106	97	8.9	90	91	1.1	70 - 130	30	
2-Chlorotoluene	ND	97	89	8.6	90	90	0.0	70 - 130	30	
2-Hexanone	ND	80	71	11.9	56	59	5.2	70 - 130	30	m
2-Isopropyltoluene	ND	100	94	6.2	96	95	1.0	70 - 130	30	
4-Chlorotoluene	ND	97	89	8.6	90	90	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	108	95	12.8	86	94	8.9	70 - 130	30	
Acetone	ND	77	60	24.8	56	58	3.5	70 - 130	30	l,m
Acrylonitrile	ND	107	102	4.8	95	91	4.3	70 - 130	30	
Benzene	ND	102	94	8.2	96	95	1.0	70 - 130	30	
Bromobenzene	ND	100	94	6.2	94	93	1.1	70 - 130	30	
Bromochloromethane	ND	105	100	4.9	98	95	3.1	70 - 130	30	
Bromodichloromethane	ND	108	98	9.7	92	93	1.1	70 - 130	30	
Bromoform	ND	115	103	11.0	89	92	3.3	70 - 130	30	
Bromomethane	ND	105	94	11.1	80	82	2.5	70 - 130	30	
Carbon Disulfide	ND	95	88	7.7	92	89	3.3	70 - 130	30	
Carbon tetrachloride	ND	104	100	3.9	90	91	1.1	70 - 130	30	
Chlorobenzene	ND	103	94	9.1	94	92	2.2	70 - 130	30	
Chloroethane	ND	104	96	8.0	94	91	3.2	70 - 130	30	
Chloroform	ND	103	96	7.0	95	94	1.1	70 - 130	30	
Chloromethane	ND	101	91	10.4	91	89	2.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	104	99	4.9	97	89	8.6	70 - 130	30	

QA/QC Data

SDG I.D.: GBD42842

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	105	95	10.0	94	96	2.1	70 - 130	30	
Dibromochloromethane	ND	112	101	10.3	92	92	0.0	70 - 130	30	
Dibromomethane	ND	108	96	11.8	91	96	5.3	70 - 130	30	
Dichlorodifluoromethane	ND	102	94	8.2	90	91	1.1	70 - 130	30	
Ethylbenzene	ND	98	92	6.3	96	93	3.2	70 - 130	30	
Hexachlorobutadiene	ND	96	83	14.5	82	90	9.3	70 - 130	30	
Isopropylbenzene	ND	102	99	3.0	98	95	3.1	70 - 130	30	
m&p-Xylene	ND	101	93	8.2	97	94	3.1	70 - 130	30	
Methyl ethyl ketone	ND	76	65	15.6	52	59	12.6	70 - 130	30	l,m
Methyl t-butyl ether (MTBE)	ND	103	92	11.3	102	100	2.0	70 - 130	30	
Methylene chloride	ND	98	89	9.6	90	86	4.5	70 - 130	30	
Naphthalene	ND	128	92	32.7	82	113	31.8	70 - 130	30	r
n-Butylbenzene	ND	95	87	8.8	85	88	3.5	70 - 130	30	
n-Propylbenzene	ND	101	96	5.1	94	92	2.2	70 - 130	30	
o-Xylene	ND	106	96	9.9	96	95	1.0	70 - 130	30	
p-Isopropyltoluene	ND	100	95	5.1	92	91	1.1	70 - 130	30	
sec-Butylbenzene	ND	99	95	4.1	95	92	3.2	70 - 130	30	
Styrene	ND	100	92	8.3	94	94	0.0	70 - 130	30	
tert-Butylbenzene	ND	103	99	4.0	99	96	3.1	70 - 130	30	
Tetrachloroethene	ND	97	93	4.2	92	90	2.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	109	93	15.8	88	98	10.8	70 - 130	30	
Toluene	ND	102	94	8.2	94	94	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	100	95	5.1	96	86	11.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	107	94	12.9	89	94	5.5	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	111	96	14.5	81	87	7.1	70 - 130	30	
Trichloroethene	ND	107	102	4.8	94	93	1.1	70 - 130	30	
Trichlorofluoromethane	ND	106	100	5.8	91	88	3.4	70 - 130	30	
Trichlorotrifluoroethane	ND	99	93	6.3	89	88	1.1	70 - 130	30	
Vinyl chloride	ND	102	94	8.2	94	93	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	103	100	102	2.0	99	101	2.0	70 - 130	30	
% Bromofluorobenzene	96	102	98	4.0	102	102	0.0	70 - 130	30	
% Dibromofluoromethane	99	100	102	2.0	98	100	2.0	70 - 130	30	
% Toluene-d8	99	100	100	0.0	100	100	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 223561, QC Sample No: BD41992 (BD42847)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	108	109	0.9	91	79	14.1	70 - 130	30	
1,1,1-Trichloroethane	ND	109	112	2.7	93	69	29.6	70 - 130	30	m
1,1,2,2-Tetrachloroethane	ND	103	97	6.0	94	102	8.2	70 - 130	30	
1,1,2-Trichloroethane	ND	107	110	2.8	92	91	1.1	70 - 130	30	
1,1-Dichloroethane	ND	109	110	0.9	92	68	30.0	70 - 130	30	m
1,1-Dichloroethene	ND	106	106	0.0	87	60	36.7	70 - 130	30	m,r
1,1-Dichloropropene	ND	106	107	0.9	89	62	35.8	70 - 130	30	m,r
1,2,3-Trichlorobenzene	ND	109	95	13.7	83	81	2.4	70 - 130	30	
1,2,3-Trichloropropane	ND	102	104	1.9	88	99	11.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	105	83	23.4	77	75	2.6	70 - 130	30	
1,2,4-Trimethylbenzene	ND	105	99	5.9	83	66	22.8	70 - 130	30	m
1,2-Dibromo-3-chloropropane	ND	120	125	4.1	93	107	14.0	70 - 130	30	
1,2-Dibromoethane	ND	111	112	0.9	98	96	2.1	70 - 130	30	
1,2-Dichlorobenzene	ND	105	98	6.9	84	75	11.3	70 - 130	30	
1,2-Dichloroethane	ND	106	107	0.9	94	87	7.7	70 - 130	30	

QA/QC Data

SDG I.D.: GBD42842

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloropropane	ND	105	107	1.9	92	77	17.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	103	100	3.0	83	65	24.3	70 - 130	30	m
1,3-Dichlorobenzene	ND	103	94	9.1	81	67	18.9	70 - 130	30	m
1,3-Dichloropropane	ND	106	108	1.9	93	92	1.1	70 - 130	30	
1,4-Dichlorobenzene	ND	103	92	11.3	80	69	14.8	70 - 130	30	m
2,2-Dichloropropane	ND	125	121	3.3	89	63	34.2	70 - 130	30	m,r
2-Chlorotoluene	ND	104	101	2.9	84	65	25.5	70 - 130	30	m
2-Hexanone	ND	99	82	18.8	61	73	17.9	70 - 130	30	m
2-Isopropyltoluene	ND	100	102	2.0	86	66	26.3	70 - 130	30	m
4-Chlorotoluene	ND	101	94	7.2	81	64	23.4	70 - 130	30	m
4-Methyl-2-pentanone	ND	102	103	1.0	92	104	12.2	70 - 130	30	
Acetone	ND	88	69	24.2	<40	<40	NC	70 - 130	30	l,m
Acrylonitrile	ND	106	107	0.9	95	118	21.6	70 - 130	30	
Benzene	ND	105	106	0.9	91	68	28.9	70 - 130	30	m
Bromobenzene	ND	104	102	1.9	86	74	15.0	70 - 130	30	
Bromochloromethane	ND	108	109	0.9	93	85	9.0	70 - 130	30	
Bromodichloromethane	ND	108	113	4.5	93	77	18.8	70 - 130	30	
Bromoform	ND	117	121	3.4	92	96	4.3	70 - 130	30	
Bromomethane	ND	124	118	5.0	88	66	28.6	70 - 130	30	m
Carbon Disulfide	ND	113	104	8.3	90	61	38.4	70 - 130	30	m,r
Carbon tetrachloride	ND	114	118	3.4	93	65	35.4	70 - 130	30	m,r
Chlorobenzene	ND	105	103	1.9	88	72	20.0	70 - 130	30	
Chloroethane	ND	118	111	6.1	94	64	38.0	70 - 130	30	m,r
Chloroform	ND	107	111	3.7	93	73	24.1	70 - 130	30	
Chloromethane	ND	124	107	14.7	96	61	44.6	70 - 130	30	m,r
cis-1,2-Dichloroethene	ND	111	112	0.9	93	73	24.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	109	107	1.9	91	75	19.3	70 - 130	30	
Dibromochloromethane	ND	113	117	3.5	92	83	10.3	70 - 130	30	
Dibromomethane	ND	107	110	2.8	93	91	2.2	70 - 130	30	
Dichlorodifluoromethane	ND	>150	113	NC	104	65	46.2	70 - 130	30	l,m,r
Ethylbenzene	ND	103	101	2.0	88	67	27.1	70 - 130	30	m
Hexachlorobutadiene	ND	95	94	1.1	79	62	24.1	70 - 130	30	m
Isopropylbenzene	ND	106	106	0.0	87	64	30.5	70 - 130	30	m
m&p-Xylene	ND	103	100	3.0	86	66	26.3	70 - 130	30	m
Methyl ethyl ketone	ND	97	76	24.3	54	71	27.2	70 - 130	30	m
Methyl t-butyl ether (MTBE)	ND	114	121	6.0	87	109	22.4	70 - 130	30	
Methylene chloride	ND	101	103	2.0	87	75	14.8	70 - 130	30	
Naphthalene	ND	116	112	3.5	83	97	15.6	70 - 130	30	
n-Butylbenzene	ND	102	97	5.0	78	58	29.4	70 - 130	30	m
n-Propylbenzene	ND	107	104	2.8	82	61	29.4	70 - 130	30	m
o-Xylene	ND	118	111	6.1	88	70	22.8	70 - 130	30	
p-Isopropyltoluene	ND	104	101	2.9	82	61	29.4	70 - 130	30	m
sec-Butylbenzene	ND	100	101	1.0	83	62	29.0	70 - 130	30	m
Styrene	ND	114	103	10.1	85	70	19.4	70 - 130	30	
tert-Butylbenzene	ND	103	107	3.8	86	64	29.3	70 - 130	30	m
Tetrachloroethene	ND	106	104	1.9	86	62	32.4	70 - 130	30	m,r
Tetrahydrofuran (THF)	ND	107	106	0.9	97	128	27.6	70 - 130	30	
Toluene	ND	104	105	1.0	90	67	29.3	70 - 130	30	m
trans-1,2-Dichloroethene	ND	107	110	2.8	87	66	27.5	70 - 130	30	m
trans-1,3-Dichloropropene	ND	111	110	0.9	92	86	6.7	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	126	113	10.9	87	98	11.9	70 - 130	30	
Trichloroethene	ND	111	116	4.4	89	64	32.7	70 - 130	30	m,r
Trichlorofluoromethane	ND	118	116	1.7	91	64	34.8	70 - 130	30	m,r

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorotrifluoroethane	ND	103	108	4.7	84	59	35.0	70 - 130	30	m,r
Vinyl chloride	ND	121	108	11.4	90	58	43.2	70 - 130	30	m,r
% 1,2-dichlorobenzene-d4	96	102	101	1.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	95	100	100	0.0	100	100	0.0	70 - 130	30	
% Dibromofluoromethane	98	102	100	2.0	103	108	4.7	70 - 130	30	
% Toluene-d8	94	98	101	3.0	100	98	2.0	70 - 130	30	

Comment:

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

QA/QC Batch 222677, QC Sample No: BD42134 (BD42848)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum HC	ND	86	95	9.9	86	86	0.0	60 - 120	20
% n-Pentacosane	96	102	99	3.0	97	95	2.1	50 - 150	20

QA/QC Batch 222591, QC Sample No: BD42191 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	81	81	0.0	75	84	11.3	60 - 120	30
% n-Pentacosane	82	80	83	3.7	81	93	13.8	50 - 150	30

QA/QC Batch 222613, QC Sample No: BD42390 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	97	85	13.2	82	75	8.9	30 - 130	30
Acenaphthene	ND	92	91	1.1	99	97	2.0	30 - 130	30
Acenaphthylene	ND	89	82	8.2	97	93	4.2	30 - 130	30
Anthracene	ND	94	93	1.1	103	108	4.7	30 - 130	30
Benz(a)anthracene	ND	88	91	3.4	98	98	0.0	30 - 130	30
Benzo(a)pyrene	ND	85	84	1.2	90	97	7.5	30 - 130	30
Benzo(b)fluoranthene	ND	86	87	1.2	98	107	8.8	30 - 130	30
Benzo(ghi)perylene	ND	81	82	1.2	66	83	22.8	30 - 130	30
Benzo(k)fluoranthene	ND	102	97	5.0	110	114	3.6	30 - 130	30
Chrysene	ND	98	94	4.2	98	100	2.0	30 - 130	30
Dibenz(a,h)anthracene	ND	82	87	5.9	72	93	25.5	30 - 130	30
Fluoranthene	ND	89	90	1.1	106	123	14.8	30 - 130	30
Fluorene	ND	81	93	13.8	96	108	11.8	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	81	86	6.0	71	92	25.8	30 - 130	30
Naphthalene	ND	85	82	3.6	87	90	3.4	30 - 130	30
Phenanthrene	ND	95	94	1.1	105	111	5.6	30 - 130	30
Pyrene	ND	90	90	0.0	110	128	15.1	30 - 130	30
% 2-Fluorobiphenyl	86	85	83	2.4	99	94	5.2	30 - 130	30
% Nitrobenzene-d5	88	98	93	5.2	96	94	2.1	30 - 130	30
% Terphenyl-d14	107	89	96	7.6	119	116	2.6	30 - 130	30

Comment:

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

QA/QC Batch 222669, QC Sample No: BD42613 (BD42848)

Polynuclear Aromatic HC - Ground Water

2-Methylnaphthalene	ND	64	64	0.0	77	72	6.7	30 - 130	20
Acenaphthene	ND	66	68	3.0	80	76	5.1	30 - 130	20
Acenaphthylene	ND	53	54	1.9	95	89	6.5	30 - 130	20
Anthracene	ND	79	80	1.3	94	91	3.2	30 - 130	20
Benz(a)anthracene	ND	82	83	1.2	86	85	1.2	30 - 130	20
Benzo(a)pyrene	ND	75	76	1.3	88	85	3.5	30 - 130	20
Benzo(b)fluoranthene	ND	97	101	4.0	99	97	2.0	30 - 130	20

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzo(ghi)perylene	ND	95	90	5.4	95	98	3.1	30 - 130	20	
Benzo(k)fluoranthene	ND	98	101	3.0	99	99	0.0	30 - 130	20	
Chrysene	ND	74	76	2.7	77	75	2.6	30 - 130	20	
Dibenz(a,h)anthracene	ND	104	100	3.9	101	104	2.9	30 - 130	20	
Fluoranthene	ND	82	83	1.2	91	88	3.4	30 - 130	20	
Fluorene	ND	72	74	2.7	86	82	4.8	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	83	81	2.4	85	86	1.2	30 - 130	20	
Naphthalene	ND	60	61	1.7	73	67	8.6	30 - 130	20	
Phenanthrene	ND	69	70	1.4	81	78	3.8	30 - 130	20	
Pyrene	ND	77	78	1.3	90	87	3.4	30 - 130	20	
% 2-Fluorobiphenyl	77	62	64	3.2	76	71	6.8	30 - 130	20	
% Nitrobenzene-d5	95	67	68	1.5	80	75	6.5	30 - 130	20	
% Terphenyl-d14	92	86	87	1.2	91	90	1.1	30 - 130	20	

QA/QC Batch 222696, QC Sample No: BD42802 (BD42848)

Polychlorinated Biphenyls - Ground Water

PCB-1016	ND	92	73	23.0				40 - 140	20	r
PCB-1221	ND							40 - 140	20	
PCB-1232	ND							40 - 140	20	
PCB-1242	ND							40 - 140	20	
PCB-1248	ND							40 - 140	20	
PCB-1254	ND							40 - 140	20	
PCB-1260	ND	93	74	22.8				40 - 140	20	r
PCB-1262	ND							40 - 140	20	
PCB-1268	ND							40 - 140	20	
% DCBP (Surrogate Rec)	79	86	72	17.7				30 - 150	20	
% TCMX (Surrogate Rec)	81	84	60	33.3				30 - 150	20	r

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 222665, QC Sample No: BD42846 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	77	76	1.3	79	77	2.6	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	79	81	2.5	84	80	4.9	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	91	88	89	1.1	94	88	6.6	30 - 150	30
% TCMX (Surrogate Rec)	93	92	92	0.0	99	92	7.3	30 - 150	30

QA/QC Batch 222969, QC Sample No: BD43516 (BD42848, BD42849)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	103	108	4.7				70 - 130	30
1,1,1-Trichloroethane	ND	102	107	4.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	95	98	3.1				70 - 130	30
1,1,2-Trichloroethane	ND	104	109	4.7				70 - 130	30
1,1-Dichloroethane	ND	107	110	2.8				70 - 130	30
1,1-Dichloroethene	ND	105	110	4.7				70 - 130	30
1,1-Dichloropropene	ND	96	104	8.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	106	108	1.9				70 - 130	30

QA/QC Data

SDG I.D.: GBD42842

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichloropropane	ND	101	103	2.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	102	104	1.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	105	107	1.9				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	105	106	0.9				70 - 130	30
1,2-Dibromoethane	ND	103	108	4.7				70 - 130	30
1,2-Dichlorobenzene	ND	103	107	3.8				70 - 130	30
1,2-Dichloroethane	ND	101	104	2.9				70 - 130	30
1,2-Dichloropropane	ND	102	105	2.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	103	105	1.9				70 - 130	30
1,3-Dichlorobenzene	ND	103	107	3.8				70 - 130	30
1,3-Dichloropropane	ND	103	109	5.7				70 - 130	30
1,4-Dichlorobenzene	ND	104	106	1.9				70 - 130	30
2,2-Dichloropropane	ND	52	53	1.9				70 - 130	30
2-Chlorotoluene	ND	103	105	1.9				70 - 130	30
2-Hexanone	ND	103	107	3.8				70 - 130	30
2-Isopropyltoluene	ND	102	105	2.9				70 - 130	30
4-Chlorotoluene	ND	100	103	3.0				70 - 130	30
4-Methyl-2-pentanone	ND	102	112	9.3				70 - 130	30
Acetone	ND	76	75	1.3				70 - 130	30
Acrylonitrile	ND	104	106	1.9				70 - 130	30
Benzene	ND	101	106	4.8				70 - 130	30
Bromobenzene	ND	99	104	4.9				70 - 130	30
Bromochloromethane	ND	109	111	1.8				70 - 130	30
Bromodichloromethane	ND	104	110	5.6				70 - 130	30
Bromoform	ND	108	111	2.7				70 - 130	30
Bromomethane	ND	107	120	11.5				70 - 130	30
Carbon Disulfide	ND	98	101	3.0				70 - 130	30
Carbon tetrachloride	ND	100	108	7.7				70 - 130	30
Chlorobenzene	ND	104	109	4.7				70 - 130	30
Chloroethane	ND	114	118	3.4				70 - 130	30
Chloroform	ND	106	109	2.8				70 - 130	30
Chloromethane	ND	110	111	0.9				70 - 130	30
cis-1,2-Dichloroethene	ND	109	113	3.6				70 - 130	30
cis-1,3-Dichloropropene	ND	95	101	6.1				70 - 130	30
Dibromochloromethane	ND	104	112	7.4				70 - 130	30
Dibromomethane	ND	104	109	4.7				70 - 130	30
Dichlorodifluoromethane	ND	109	115	5.4				70 - 130	30
Ethylbenzene	ND	101	106	4.8				70 - 130	30
Hexachlorobutadiene	ND	89	95	6.5				70 - 130	30
Isopropylbenzene	ND	100	105	4.9				70 - 130	30
m&p-Xylene	ND	102	106	3.8				70 - 130	30
Methyl ethyl ketone	ND	101	110	8.5				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	101	107	5.8				70 - 130	30
Methylene chloride	ND	95	97	2.1				70 - 130	30
Naphthalene	ND	107	111	3.7				70 - 130	30
n-Butylbenzene	ND	99	101	2.0				70 - 130	30
n-Propylbenzene	ND	100	104	3.9				70 - 130	30
o-Xylene	ND	111	118	6.1				70 - 130	30
p-Isopropyltoluene	ND	103	106	2.9				70 - 130	30
sec-Butylbenzene	ND	99	103	4.0				70 - 130	30
Styrene	ND	109	115	5.4				70 - 130	30
tert-Butylbenzene	ND	100	105	4.9				70 - 130	30
Tetrachloroethene	ND	96	103	7.0				70 - 130	30

QA/QC Data

SDG I.D.: GBD42842

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrahydrofuran (THF)	ND	97	102	5.0				70 - 130	30
Toluene	ND	98	104	5.9				70 - 130	30
trans-1,2-Dichloroethene	ND	106	110	3.7				70 - 130	30
trans-1,3-Dichloropropene	ND	95	101	6.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	80	83	3.7				70 - 130	30
Trichloroethene	ND	103	108	4.7				70 - 130	30
Trichlorofluoromethane	ND	107	112	4.6				70 - 130	30
Trichlorotrifluoroethane	ND	98	104	5.9				70 - 130	30
Vinyl chloride	ND	108	111	2.7				70 - 130	30
% 1,2-dichlorobenzene-d4	102	101	100	1.0				70 - 130	30
% Bromofluorobenzene	90	102	102	0.0				70 - 130	30
% Dibromofluoromethane	103	105	101	3.9				70 - 130	30
% Toluene-d8	100	99	100	1.0				70 - 130	30

Comment:

The MS/MSD are not reported for this batch.

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

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

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

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

Phyllis Shiller, Laboratory Director
March 18, 2013

Monday, March 18, 2013

Requested Criteria: GBM, RC

State: CT

Sample Criteria Exceedences Report

GBD42842 - MAGUIRE

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD42843	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GB PMC (mg/l)**	0.272	0.010	0.15	0.15	mg/L

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** MAGUIRE

Project Location: MIDDLETOWN PUMP STATION **Project Number:**

Laboratory Sample ID(s): BD42842, BD42843, BD42844, BD42845, BD42846, BD42847, BD42848, BD42849, BD42850, BD42851

Sampling Date(s): 3/5/2013

RCP Methods Used:

☑ 1311/1312 ☑ 6010 ☐ 7000 ☐ 7196 ☑ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15

☑ 8082 ☐ 8151 ☑ 8260 ☑ 8270 ☑ ETPH ☐ 9010/9012 ☐ VPH

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.	EPH and VPH 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, Mercury Narration, PCB Narration, VOA Narration.	☐ Yes ☑ No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5b.	Were these reporting limits met?	☑ Yes ☐ No ☐ NA
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 ☐ NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	☑ Yes ☐ No ☐ NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #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".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowlegde 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: _____

Date: Monday, March 18, 2013

Printed Name: Maryam Taylor

Position: Project Manager

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
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-fid84 03/06/13-1 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Jeff Bucko
Position: Chemist
Date: 3/6/2013

Instrument: Au-xl1 03/06/13-2 (BD42848)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C36

Printed Name Jeff Bucko
Position: Chemist
Date: 3/6/2013

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

QC (Batch Specific)

---------- Sample No: BD42134, QA/QC Batch: 222677 ----------

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 20% with the following exceptions: None.

---------- Sample No: BD42191, QA/QC Batch: 222591 ----------

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.

Mercury Narration

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

QC Batch 223069 (Samples: BD42843, BD42844, BD42845, BD42846): -----

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Mercury)

Instrument: Merlin 03/07/13-1 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847, BD42848)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

Printed Name Rick Schweitzer
Position: Chemist
Date: 3/7/2013

Instrument: Merlin 03/11/13-1 (BD42843, BD42844, BD42845, BD42846, BD42847)

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interfernce for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

Printed Name	Rick Schweitzer
Position:	Chemist
Date:	3/11/2013

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

QC (Site Specific)

---------- Sample No: BD42843, QA/QC Batch: 223069 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

All MSD recoveries were within 75 - 125 with the following exceptions: Mercury(>125%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD42847, QA/QC Batch: 222953 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD42848, QA/QC Batch: 222830 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD42027, QA/QC Batch: 222827 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

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.

ICP Narration

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

QC Batch 222676 (Samples: BD42842, BD42843, BD42844, BD42845, BD42846, BD42847): -----

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. (Barium)

Instrument: Arcos 03/05/13-1 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/5/2013

Instrument: Arcos 03/06/13-1 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/6/2013

Instrument: Arcos 03/07/13-1 (BD42843, BD42847)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/7/2013

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

Instrument: Blue 03/05/13-1 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847, BD42848)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/5/2013

Instrument: Blue 03/06/13-1 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847, BD42848)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/6/2013

Instrument: Blue 03/07/13-1 (BD42843, BD42844)

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.

Printed Name Laura Kinnin
Position: Chemist
Date: 3/7/2013

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

QC (Site Specific)

---------- Sample No: BD42842, QA/QC Batch: 222676 ----------

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

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

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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

All MSD recoveries were within 75 - 125 with the following exceptions: Barium(73.9%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD42848, QA/QC Batch: 222698 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

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

All MS/MSD RPDs were less than 20% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD41880, QA/QC Batch: 222612 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---------- Sample No: BD41971, QA/QC Batch: 222565 ----------

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

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

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

PAH Narration

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

Instrument: Chem06 03/05/13-2 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were not evaluated in the DFTPP tune.

Initial Calibration (Chem06/BN_0304):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: None

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 3/5/2013

QC (Batch Specific)

---------- Sample No: BD42613, QA/QC Batch: 222669 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

PCB Narration

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

QC Batch 222696 (Samples: BD42848): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (PCB-1016, PCB-1260)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates. Both recoveries were within limits. No significant bias is suspected. (% TCMX (Surrogate Rec))

Instrument: Au-ecd1 03/06/13-1 (BD42848)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

Printed Name Adam Werner
Position: Chemist
Date: 3/6/2013

Instrument: Au-ecd6 03/06/13-1 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42847)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 3/6/2013

QC Comments: QC Batch 222696 03/05/13 (BD42848)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Site Specific)

---------- Sample No: BD42846, QA/QC Batch: 222665 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

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.

QC (Batch Specific)

---------- Sample No: BD42802, QA/QC Batch: 222696 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: % TCMX (Surrogate Rec)(33.3%), PCB-1016(23.0%), PCB-1260(22.8%)

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

SVOASIM Narration

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

Instrument: Chem04 03/06/13-1 (BD42848)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

If PAH/base neutral were requested, Phoenix utilized a method that contained a shortened list , so some of the compounds in the narrative may be non-applicable.

Initial Calibration (Chem04/SIM_0301):
Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Pentachlorophenol

The following compounds failed to meet the minimum required response factor: None

Continuing Calibration:
Greater than 80% of target compounds met continuing calibraion criteria with a %D <20. The following compunds had >20% difference from the initial calibration: Dibenz(a,h)anthracene, Benzo(ghi)perylene

Printed Name Damien Drobinski
Position: Chemist
Date: 3/6/2013

QC (Batch Specific)

---------- Sample No: BD42613, QA/QC Batch: 222669 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

VOA Narration

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

QC Batch 222885 (Samples: BD42842, BD42843, BD42844, BD42845, BD42846, BD42850, BD42851): -----

Several QC recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is likely. (Acetone, Methyl ethyl ketone)

QC Batch 222969 (Samples: BD42848, BD42849): -----

The LCS/LCSD recoveries are below the lower range, but within the method criteria. A slight low bias for these analytes is possible. (2,2-Dichloropropane)

Instrument: Chem03 03/06/13-2 (BD42842, BD42843, BD42844, BD42845, BD42846, BD42850, BD42851)

Initial Calibration Verification (RCPS_0306):
>90% of target compounds met method criteria.
The following compounds had %RSDs >20%: Acetone

Continuing Calibration Verification:
>80% of target compounds met method criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Tetrahydrofuran (THF)

Printed Name Johanna Harrington
Position: Chemist
Date: 3/6/2013

Instrument: Chem17 03/07/13-1 (BD42848, BD42849)

Initial Calibration (RCPS_0307):
All SPCCs, CCCs and >80% of target compounds met criteria except that the following compounds had %RSDs >20%: Bromomethane, Methylene Chloride

Continuing Calibration Verification:
The following compounds had % Deviations >30%: Acetone, 2,2-Dichloropropane, Tetrahydrofuran (THF)

Printed Name Tina Covensky
Position: Chemist
Date: 3/7/2013

Instrument: Chem18 03/11/13-2 (BD42847)

Initial Calibration Verification (CHEM18/RCPS_0311#1):
>90% of target compounds met criteria.
The following compounds had %RSDs >20%: Methyl Ethyl Ketone, 2-hexanone

Continuing Calibration Verification:

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.
The following compounds had % Deviations >20%: Dichlorodifluoromethane, 2,2-Dichloropropane, Tetrahydrofuran (THF), trans-1,4-Dichloro-2-butene

Printed Name Johanna Harrington
Position: Chemist
Date: 3/11/2013

QC Comments: QC Batch 222969 03/07/13 (BD42848, BD42849)

The MS/MSD are not reported for this batch.

QC (Batch Specific)

---------- Sample No: BD41974, QA/QC Batch: 222885 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(60%), Methyl ethyl ketone(65%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Naphthalene(32.7%)

---------- Sample No: BD41992, QA/QC Batch: 223561 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(>150%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Acetone(69%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BD43516, QA/QC Batch: 222969 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(52%)

All LCSD recoveries were within 70 - 130 with the following exceptions: 2,2-Dichloropropane(53%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

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

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

RCP Certification Report

March 18, 2013

SDG I.D.: GBD42842

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ N ☐

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

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

Temp 6 °C Pg 1 of 1

Data Delivery:
☐ Fax #:
☒ Email: JWitherell@CDRMaguire.com

Customer: CDR Maguire
Address: 2080 Silas Deane Highway
Rocky Hill, CT, 06067

Project: Middletown Pump Station
Report to: Jane Witherell
Invoice to: Maguire Bid Prices

Project P.O: 14712.02 A300
Phone #: 860-563-3158
Fax #: 860-563-3188

~~Client Sample - Information - Identification~~

Sampler's Signature: [signature] Date: 3/5/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOC's	PAH's	ETPH	PCB's	Total RCRA Metals	SPLP RCRA Metals	Dissolved RCRA Metals	Soil VOA Vials [1] methanol [2] H2O	GL Soil container (8) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [3] HCl	GL Amber 1000ml [4] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 250ml [ ] 500ml	PL HNO3 250ml / FF	PL NaOH 250ml	Bacteria Bottle
42842	PSGP-35	S	3/5	12:10	X	X	X	X	X	X		3	2								
42843	PSGP-34	S		12:20	X	X	X	X	X	X		3	2								
42844	PSGP-25	S		12:50	X	X	X	X	X	X		3	2								
42845	PSGP-26	S		13:05	X	X	X	X	X	X		3	2								
42846	PSGP-27	S		13:30	X	X	X	X	X	X		3	2								
42847	PSGP-28	S		13:45	X	X	X	X	X	X		3	2								
42848	FB-1	GW			X	X	X	X	X		X				3	4			2		
42849	Trip Blank 2	S/GW													3						
42850	Trip Blank LL											2									
42851	Trip Blank HL											1									

Relinquished by:	Accepted by:	Date:	Time:
[signature]	CParadise	3/5/13	1507

Comments, Special Requirements or Regulations:
35 0-2
34 0-2
25 8-10
26 2-4 ← refusal 4'
27 3-5 ← refusal 5'
28 3-5 ← refusal 5'

Turnaround:
☐ 1 Day*
☐ 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

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

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

State where samples were collected: CT

APPENDIX C
DQA & DUE Worksheets

DATA USABILITY EVALUATION WORKSHEET

Project Name: Phase II Environmental Site Assessment - Proposed Sewage Pump Station, Middletown, CT

Laboratory: Phoenix Environmental Laboratories, Inc.

Laboratory Report:	GBD37825, GBD38387, GBD39015, GBD39731, GBD41136, GBD41558, GBD42842, GBD96501, GBD95942, GBF05840, GBF04980, GBF04345
Date Samples Collected:	February 20-22, 25 & 28, 2013 & March 1 & 5, 2013 & June 24 & 25, 2013 & July 11, 12 & 15, 2013

Describe the intended use of the data: To verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during demolition activities

Nonconformance DQA Review Elements	Briefly Summarize DQA Nonconformance
Standard RCP Deliverables	
Data Package Inspection	
Reasonable Confidence Evaluation	
Chain of Custody Evaluation	
Sample Result Evaluation	
Sample Preservation & Holding Time Evaluation	
Blank Evaluation	
Laboratory Control Samples	see DQA for details
Surrogates	
Site-Specific Matrix Spikes and Matrix Spike Duplicates	see DQA for details
Tentatively Identified Compounds	
Other QC Data	

DATA USABILITY EVALUATION WORKSHEET

Provide a summary statement describing how the analytical data set relied upon is of adequate quality and of sufficient accuracy, precision, and sensitivity for the intended purpose.

The results will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction

A data quality assessment and data usability evaluation was performed for the data generated in accordance with the CTDEEP's "Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation Guidance Document".

Non-conformances related to LCS/LCSD, LCS/LCSD RPD, MS/MSD, MS/MSD RPD, detection limits, blanks, surrogate recoveries, CCVs, and ICAL responses do not have significant bearings on the accuracy and usability of the data for its intended purposes. In all cases the non-conformances have no impact to the data usability and is considered of sufficient quality and precision using multiple lines of evidence.

The data indicates that contaminants are present in the soil,concrete, and groundwater at low to elevated concentrations that exceed applicable RSR criteria. Environmental Plans and Specifications will be prepared to address the soil, and groundwater contamination during the construction activities.

Based on the above findings from the DQA and DUE, the analytical data is of adequate and of sufficient accuracy, precision and sensitivity to identify areas requiring special treatment, handling, disposal and/or reuse during the construction.

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - SOIL SAMPLES

Proposed Sewage Pump Station: Middletown, CT

Laboratory:	Phoenix Environmental Laboratories, Inc.
SDG:	GBD37825, GBD38387, GBD39015, GBD39731, GBD41136, GBD41558, GBD42842, GBD96501, GBD95942, GBF05840, GBF04980, GBF04345
Date Samples Collected:	February 20-22, 25 & 28, 2013 & March 1 & 5, 2013 & June 24 & 25, 2013 & July 11, 12 & 15, 2013
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	(see notes at end of DQA)

Sample ID	Sample Date	Compound(s)	QC OUTLIER	POTENTIAL BIAS	COMMENTS	PRELIMINARY DUE CONSIDERATIONS/NOTES
VOC Analysis - 8260						
PSGP-38 3'-5'	2/20/2013	Acetone, Methyl ethyl ketone, Trichlorofluoromethane	MS/MSD	Low	Detection limits for compound orders of magnitude less than RSR criteria. LCSD recovery acceptable. Less than 10% of 8260 compounds outside of acceptance criteria	Multiple lines of evidence support data usability
PSGP-39 1'-3'	2/20/2013	Acetone, Chloromethane, Trichlorofluoromethane	MS/MSD	Low	Detection limits for compound orders of magnitude less than RSR criteria. LCS/LCSD recovery acceptable. Less than 10% of 8260 compounds outside of acceptance criteria	Multiple lines of evidence support data usability
PSGP-03 3'-5' PSGP-05 8'-10'	2/21/2013	Acetone, Methyl ethyl ketone	LCS/LCSD MS	Low	Several QC below lower range but within criteria. Less than 10% of 8260 compounds outside of acceptance criteria	Multiple lines of evidence support data usability
PSGP-49 5-10 FT PSGP-49 15-20 FT PSGP-49 20-30 FT PSGP-51A 35-40 FT	6/25/2013	Acetone, Chloromethane, Methyl ethyl ketone	LCS/LCSD	Low	Several QC recoveries are below lower range but within method criteria. A slight low bias is possible. Analytes not reported in sample.	Multiple lines of evidence support data usability
PSGP-52 13-15 FT OSGO-52 23-25 FT PSGP-52 31-35 FT PSGP-56 2-5 FT	6/24/2013	Acetone, Chloromethane	LCS/LCSD	Low	Recoveries are below the lower range, but within method criteria. A slight low bias is possible. Analytes not reported in sample.	Multiple lines of evidence support data usability
PSGP-49 5-10 FT PSGP-49 15-20 FT PSGP-49 20-30 FT PSGP-51A 35-40 FT	7/14/2013	Acetone, Methyl ethyl ketone	LCS, LCSD	Low	Several QC recoveries are below lower range but within method criteria. A slight low bias is possible. Analytes not reported in sample.	Multiple lines of evidence support data usability
PSGP-42 1-5 FT PSGP-42 9-13 FT PSGP-42 15-20 FT PSGP-44 2-5 FT PSGP-44 8-10 FT PSGP-44 15-20 FT PSGP-57 1-5 FT PSGP-58 2-5 FT	7/12/2013	Acetone, Methyl ethyl ketone	LCS, LCSD	Low	Several QC recoveries are below lower range but within method criteria. A slight low bias is possible. Analytes not reported in sample.	Multiple lines of evidence support data usability
PSGP-45 15-20 FT	7/11/2013	Acetone	LCS/LCSD	Loe	QC recoveries for one or more analytes is below method criteria.	No impact to data usability
PSGP-04 8'-10'	2/21/2013	Acetone, Chloromethane, Trichlorofluoromethane	MS/MSD	Low	Detection limits for compound orders of magnitude less than RSR criteria. All other method criteria acceptable. Less than 10% of 8260 compounds outside of acceptance criteria	Multiple lines of evidence support data usability
PSGP-10 18'-20' PSGP-13 5'-7' PSGP-15 2'-4' PSGP-02 3'-5' PSGP-36 5'-7' PSGP-09 0'-2' PSGP-17 1'-3' PSGP-16 18'-20'	2/22/2013	Bromomethane	LCS, MS RPD	Non-Directional	Recovery above upper range, but analyte not reported in sample	No impact to data usability
PSGP-14 3'-5' PSGP-06 13'-15' PSGP-12 12'-14' PSGP-11 13'-15'	2/25/2013	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Hexanone, Acetone, Carbon Disulfide, Hexachlorobutadiene, Methyl ethyl ketone, Naphthalene, Styrene, trans-1,4-dichloro-2-butene	MS/MSD	Low	Greater than 10% of 8260 compounds outside of acceptance criteria. Analytes in site specific matrix spike recovery below lower range and outside method criteria	Multiple lines of evidence support data usability
ETPH Narration						
PSGP-01 0'-2' PSGP-07 2'-4' PSGP-37 3'-5' PSGP-38 3'-5' PSGP-39 1'-3'	2/20/2013	Ext. Petroleum HC	LCSD	No Bias	LCSD recovery is below the method criteria, all other QC is acceptable	No impact to data usability

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - SOIL SAMPLES

Proposed Sewage Pump Station: Middletown, CT

Laboratory:	Phoenix Environmental Laboratories, Inc.
SDG:	GBD37825, GBD38387, GBD39015, GBD39731, GBD41136, GBD41558, GBD42842, GBD96501, GBD95942, GBF05840, GBF04980, GBF04345
Date Samples Collected:	February 20-22, 25 & 28, 2013 & March 1 & 5, 2013 & June 24 & 25, 2013 & July 11, 12 & 15, 2013
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	(see notes at end of DQA)

Sample ID	Sample Date	Compound(s)	QC OUTLIER	POTENTIAL BIAS	COMMENTS	PRELIMINARY DUE CONSIDERATIONS/NOTES
VOC Analysis - 8260						
PSGP-10 18'-20'	2/22/2013	1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2-Hexanone, Acetone, Hexachlorobutadiene, Methyl ethyl ketone, Naphthalene	MS/MSD	Low	Greater than 10% of 8260 compounds outside of acceptance criteria. Analytes in site specific matrix spike recovery below lower range and outside method criteria	Multiple lines of evidence support data usability
PSGP-13 5'-7'						
PSGP-15 2'-4'						
PSGP-02 3'-5'						
PSGP-36 5'-7'						
PSGP-09 0'-2'						
PSGP-17 1'-3'						
PSGP-16 18'-20'						
PSGP-08 5'-7'	2/25/2013	Napthalene	MS/MSD RPD	Non-Directional	Analyte in specific matrix spike recovery above upper range, LCS/LCSD recovery is acceptable	Multiple lines of evidence support data usability
PSGP-40 8'-10-						
PSGP-41 8'-10'						
RCRA 8 Metals						

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - SOIL SAMPLES	
Proposed Sewage Pump Station: Middletown, CT	
Laboratory:	Phoenix Environmental Laboratories, Inc.
SDG:	GBD37825, GBD38387, GBD39015, GBD39731, GBD41136, GBD41558, GBD42842, GBD96501, GBD95942, GBF05840, GBF04980, GBF04345
Date Samples Collected:	February 20-22, 25 & 28, 2013 & March 1 & 5, 2013 & June 24 & 25, 2013 & July 11, 12 & 15, 2013
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	

VOC Analysis Notes - Method 8260
(1) ICAL for Method 8260 on February 21, 2013 did not meet the RCP RPDs for Acetone, Methyl Ethyl Ketone
(2) CCV for Method 8260 on February 21, 2013 did not meet the RCP RPDs for 2,2-Dichloropropane
(3) CCV for Method 8260 on February 20, 2013 did not meet the RCP RPDs for Acrolein
(4) CCV for Method 8260 on February 22, 2013 did not meet the RCP RPDs for Acetone, Methyl Ethyl Ketone
(5) CCV for Method 8260 on February 22, 2013 did not meet the RCP RPDs for Dichlorodifluoromethane, Acrolein, Acetone, Methyl Ethyl Ketone, 2-Hexanone, n-Butylbenzene
(6) CCV for Method 8260 on February 25, 2013 did not meet the RCP RPDs for Bromomethane, Trans-1,4-dichloro-2-butene
(7) ICAL for Method 8260 on February 20, 22 2013 did not meet the RCP RPDs for Acrolein, Acetone
(8) ICAL for Method 8260 on February 21, 25, 2013 did not meet the RCP RPDs for Trans-1,4-dichloro-2-butene, Napthalene
(9) CCV for Method 8260 on February 21, 2013 did not meet the RCP RPDs for 2,2-Dichloropropane, Tetrahydrofuran (THF)
(10) CCV for Method 8260 on February 24, 28, March 6, 14, 2013 did not meet the RCP RPDs for Tetrahydrofuran (THF)
(11) ICAL for Method 8260 on February 24, 2013 did not meet the RCP RPDs for Acetone, Trans-1.4-dichloro-2-butene
(12) CCV for Method 8260 on February 28, 2013 did not meet the RCP RPDs for Dichlorodifluoromethane, Acetone, 1,2-Dichloroethane
(13) ICAL for Method 8260 on February 28, March 3, 4, 6, 2013 did not meet the RCP RPDs for Acetone
(14) ICAL for Method 8260 on February 28, 2013 did not meet the RCP RPDs for Bromomethane, Bromoform, Trans-1,4-dichloro-2-butene, 1,2-Dibromo-3-chloropropane
(15) CCV for Method 8260 on March 3, 2013 did not meet the RCP RPDs for Acrolein, Tetrahydrofuran (THF), 2-Hexanone, 1,2,3-Trichloropropane
(15) CCV for Method 8260 on March 4, 2013 did not meet the RCP RPDs for Acrolein, Tetrahydrofuran (THF), 2-Hexanone
(16) ICAL for Method 8260 on March 6, 7, 2013 did not meet the RCP RPDs for Acetone, Chloroethane
(17) CCV for Method 8260 on March 7, 2013 did not meet the RCP RPDs for Acetone, Methyl Ethyl Ketone, 2-Hexanone, n-Butylbenzene, 1,2,4-Trichlorobenzene
(18) ICAL for Method 8260 on March 5, 2013 did not meet the RCP RPDs for Acetone, Carbon Tetrachloride, trans-1,4-Dichloro-2-Butene
(19) CCV for Method 8260 on March 5, 2013 did not meet the RCP RPDs for Dichlorodifluoromethane, Tetrahydrofuran (THF)
(20) ICAL for Method 8260 on March 14, 2013 did not meet the RCP RPDs for Methyl Ethyl Ketone, 2-Hexanone

SVOC Analysis Notes - Method 8270
(1) ICAL for Method 8270 on February 21, 2013 did not meet the RCP RPDs for Benzaldehyde, 4-Chloroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Carbazole
(2) CCV for Method 8270 on February 21, 2013 did not meet the RCP RPDs for Benzaldehyde, Aniline, 4-Chloroaniline, 3-Nitroaniline, 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Atrazine, Carbazole
(3) CCV for Method 8270 on February 25, 2013 did not meet the RCP RPDs for % Nitrobenzene-d5
(4) ICAL for Method 8260 on February 28, 2013 did not meet the RCP RPDs for Hexachlorocyclopentadiene, 3-Nitroaniline, Acenaphthene, 2,4-dinitrophenol, 2,Nitroaniline, Pentachlorophenol, Fluoranthene, Pyrene, Benzyl Butyl Phthalate, % Terphenyl-d14
(5) CCV for Method 8270 on February 25, 28, 2013 did not meet the RCP RPDs for % Nitrobenzene-d5, Nitrobenzene
(6) ICAL for Method 8270 on February 25, 26, March 1, 2013 did not meet the RCP RPDs for Benzaldehyde, 2,4-Dinitrophenol, Carbazole
(7) ICAL for Method 8270 on February 21, 2013 failed to meet the minimum response factors for 2-nitrophenol
(8) CCV for Method 8270 on February 25, 2013 did not meet the RCP RPDs for Benzaldehyde, Aniline, Benzyl Alcohol, 4-Chloroaniline, 2,4-Dintrophenol, Atrazine, Carbazole
(9) ICAL for Method 8270 on March 1, 3, 2013 did not meet the RCP RPDs for Benzaldehyde, 2,4-Dinitrophenol, Atrazine
(10) ICAL for Method 8270 on February 25, 26, March 1, 2013 failed to meet the minimum response factors for 2-nitrophenol, Hexachlorobenzene
(11) CCV for Method 8270 on February 26, 2013 did not meet the RCP RPDs for Benzaldehyde, Aniline, Benzyl Alcohol, Pentachlorophenol, Atrazine, 3,3'-Dichlorobenzidine
(12) ICAL for Method 8270 on March 1, 3, 2013 failed to meet the minimum response factors for 2-nitrophenol, Hexachlorobenzene, % 2,4,6-Tribromophenol
(13) CCV for Method 8270 on March 3, 2013 did not meet the RCP RPDs for Benzaldehyde, Aniline, Hexachlorocyclopentadiene, Atrazine, 3,3'-Dichlorobenzidine
(14) CCV for Method 8270 on March 1, 2013 did not meet the RCP RPDs for Benzaldehyde, Hexachlorocyclopentadiene, 3-Nitroaniline, 2-Nitroaniline, Pentachlorophenol, Atrazin

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - AQUEOUS SAMPLES

Proposed Sewage Pump Station: Middletown, CT

Laboratory:	Phoenix Environmental Laboratories, Inc.
SDG:	GBD37825, GBD38387, GBD39015, GBD39731, GBD41136, GBD41558, GBD42842, GBD96501, GBD95942, GBF05840, GBF04980, GBF04345
Date Samples Collected:	February 20-22, 25 & 28, 2013 & March 1 & 5, 2013 & June 24 & 25, 2013 & July 11, 12 & 15, 2013
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	(see notes at end of DQA)

Sample ID	Sample Date	Compound(s)	QC OUTLIER	POTENTIAL BIAS	COMMENTS	PRELIMINARY DUE CONSIDERATIONS/NOTES
VOC Analysis - 8260						
MW-13	2/21/2013	2,2-Dichloropropane	LCSD	Low	Less than 10% of 8260 compounds outside of acceptance criteria. LCSD recovery acceptable	No impact to data usability
MW-10	2/22/2013	Bromomethane	MS	High	Less than 10% of 8260 compounds outside of acceptance criteria. Analyte exceeds method criteria, all other QC acceptable	Multiple lines of evidence support data usability
MW-6 MW-40	2/25/2013	Acetone	MS/MSD	High	Less than 10% of 8260 compounds outside of acceptance criteria. Analyte exceeds method criteria, all other QC acceptable	Multiple lines of evidence support data usability
FB-1	3/5/2013	2,2-Dichloropropane	LCS/LCSD	Low	Less than 10% of 8260 compounds outside of acceptance criteria. Recovery within acceptable range.	
PCB Narration						
MW-13	2/21/2013	PCB-1016	LCS/LCSD RPD	Non-Directional	Exceeds method criteria, but analytes not reported in sample, LCS/LCSD criteria acceptable	No impact to data usability
FB-1	3/5/2013	PCB-1016, PCB-1260, % TCMX (Surrogate Rec)	LCS/LCSD RPD	Non-Directional	Exceeds method criteria, but analytes not reported in sample, LCS/LCSD criteria acceptable	Multiple lines of evidence support data usability

RCP DATA QUALITY ASSESSMENT & DATA USABILITY EVALUATION WORKSHEET - AQUEOUS SAMPLES	
Proposed Sewage Pump Station: Middletown, CT	
Laboratory:	Phoenix Environmental Laboratories, Inc.
SDG:	GBD37825, GBD38387, GBD39015, GBD39731, GBD41136, GBD41558, GBD42842, GBD96501, GBD95942, GBF05840, GBF04980, GBF04345
Date Samples Collected:	February 20-22, 25 & 28, 2013 & March 1 & 5, 2013 & June 24 & 25, 2013 & July 11, 12 & 15, 2013
RCP Certification Form Included:	Yes
Lab Case Narrative Included:	Yes
Project Purpose:	Data will be used to verify the absence or presence and location of subsurface contamination, and to assess the potential pollutant impacts that may be encountered during construction
Notes:	

SVOC Analysis Notes - Method 8270

(1) Initial Calibration (ICAL) for Method 8270 on March 6, 2013 failed to meet the calibration criteria for Pentachlorophenol

(2) Continuing Calibration Verification (CCV) for Method 8270 on March 6, 2013 did not meet the RCP RPDs for Dibenz(a,h)anthacene, Benzo(ghi)perylene

VOC Analysis Notes - Method 8260

(1) Initial Calibration (ICAL) for Method 8260 on March 7, 2013 failed to meet the calibration criteria for Bromomethane, Methylene Chloride

(2) CCV for Method 8260 on March 7, 2013 failed to meet the continuing calibration criteria for Acetone, 2,2-Dichloropropane, Tetrahydrofuran (THF)